Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

October 22, 1956

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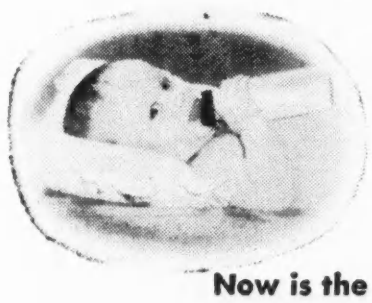
Progress Report

from **HOFFMANN-LA ROCHE**
vitamin division

If you use *pyridoxine* in your formulae ... *this message is important!*

Increasing interest among MD's
Continued widespread interest in the pharmaceutical industry and the medical profession reaches new heights with release of information at the symposium on "Newer Vitamins" held under the auspices of the National Vitamin Foundation at Vanderbilt University. The importance of pyridoxine in the field of nutrition is emphasized.

Metabolic imbalance in pregnancy
Its particular role in the metabolism of tryptophane and other amino acids may be significant in correcting certain metabolic imbalances known to exist in some pregnancies.



Important in infant feeding
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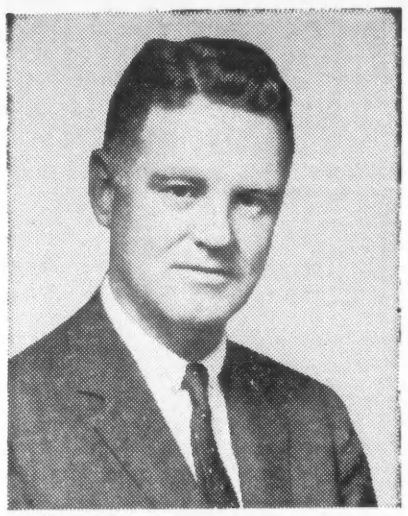

HEADS BINNEY & SMITH: John M. Hamilton, elevated from sales vice-president to president of Binney & Smith, Inc., New York, succeeding A. F. Kitchel who has become chairman of the board.

Drug Industry Representatives To Meet With Narcotics Officials On Rift-Causing Karsten Bill

In an effort to close ranks on the Karsten narcotics control bill (HR 11993) before it comes up for hearings next year, drug manufacturers will meet with officials of the Bureau of Narcotics in November. The measure, introduced in the closing days of the last congress and aimed at preventing illicit traffic in narcotics, has caused a rift in the drug industry. At issue is how much power the government needs over narcotics production to do an effective policing job. In some industry quarters it is feared that the bill threatens continued private research and development of non-habit-forming narcotic drugs in this country.

ADMA, APMA Forming Committee

The industry will be represented at the conference by a committee of six or seven members formed by the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers' Association. Both the alkaloidal manufacturers and the synthetic narcotic producers will be represented on the committee. Dr. Walton M. Wheeler of Eli Lilly & Co., Indianapolis, Ind., will serve as chairman.

As presently drawn up by the Narcotics bureau in cooperation with several narcotics producers, the bill makes the Secretary of the Treasury, or his delegate, which would be the Commissioner of Narcotics, a virtual dictator over the industry.

It is a licensing bill with almost unlimited powers given to the administrator to say who can and who cannot produce narcotics, and how much.

It is intended to implement the program of the United Nations for close government controls over world production of narcotics. Agreements drawn up by the UN require the signatory nations to control and limit production and consumption of all narcotic drugs to the level of bona fide medical needs.

Narcotic controls in this country are exercised under the Harrison act through the taxing powers of the government. The law applies to natural and synthetic narcotics alike. There are no mandatory provisions for limiting production in the law, but it has been the practice of the commissioner, with the acquiescence of

—Continued on page 62

REASSUMES PRESIDENCY: Henry H. Reichhold, founder of Reichhold Chemicals, Inc., White Plains, N. Y., and its president until 1942, who has reassumed the presidency of the company, succeeding Charles J. O'Connor who has become chairman of the board.

Paint Makers Ask Added Protection In World Markets

The paint industry last week demanded more protection for its interests by the United States government in the world markets and less use of the industry's products as pawns in reciprocal trade negotiations for gaining concessions in foreign tariffs on other items of American trade.

The demand was contained in a statement filed with the Boggs subcommittee of the house ways and means committee by the National Paint, Varnish and Lacquer Association.

NPVLA declared that while our government has been reducing its import duties on manufactured products, many foreign governments have increased duties, quotas and foreign exchange controls so effectively as to reduce the exports of the paint industry.

Further Reorganization Asked

At the same time, Standard Oil Company (N. J.), the Committee for Economic Development, and the National Anti-Dumping Committee urged a more extensive open-door policy on imports into the American markets by further modifications in the customs laws, reductions in tariffs and minimum application of the escape clause.

The paint association said that it was particularly concerned with negotiations that result in an increase in foreign restrictions on paint products in return for a lower foreign tariff on other products. An example of this type of concession cited by the statement were the negotiations earlier this year with the Dominican Republic.

That country modified three concessions on paints and varnishes by increasing the duties on these products, and to compensate for this discrimination it reduced rates and granted new concessions on other US items.

NPVLA quoted a report from one of its members as indicative of the trend towards higher duties against American paints as follows:

"The continuous decline in paint exports is not only due to a variety of administrative or legislative import restrictions but in many instances to the increase of import duties.

"Our State department was either unable to prevent advances of duty rates to prohibitive levels or did not care to oppose them. Paint accounts for hardly 2 percent of total US exports and the importance of this commodity is pretty lim-

—Continued on page 58

Polyol Installation Begun by Celanese

To meet the demand for trimethylolpropane in the polyurethane plastics and coatings field, Celanese Corporation of America, New York, has started construction of a new polyol production unit at its Chemcel plant in Bishop, Tex.

R. W. KixMiller, vice-president and general manager of the Celanese chemical division, in announcing construction of the new facility, reports that it will utilize special aldoling processes developed by Celanese and will greatly expand capacity for polyol and aldol production, which began a year ago with the start-up of a semi-works unit.

The new commercial unit is expected to be completed and producing by the last quarter of 1957. In addition to providing trimethylolpropane and other intermediates for polyurethane synthesis, this new unit will produce a range of other products that will serve end-uses in alkyd resins, high quality brake fluids and other expanding industrial fields.

"As a result of this new production facility," Mr. KixMiller said, "Celanese capacity to meet processors' needs for polyols will be significantly increased, not only for current commercial products, but also for specially-tailored new products now under development."

Nickel Earmarked for Gov't Being Diverted to Industry

Arthur S. Flemming, director of defense mobilization, has announced that he has authorized an additional diversion to industry of 5 million pounds of nickel scheduled for shipment to the government during the fourth quarter of 1956.

This action will bring total diversions for the fourth quarter to 25 million pounds and for the entire year to 79.3 million pounds.

At the same time, Mr. Flemming authorized the diversion to industry of all nickel scheduled for shipment both to the national stockpile and to the defense production act inventory in the first quarter of 1957. This is the first time since the Korean situation, he pointed out, that the government will not be in the market for nickel.

Dyestuff Works Dedicated

Sterling Drug, Inc., New York, and Amar Dye-Chem, Ltd., Bombay, India, last week dedicated a jointly-owned synthetic dyestuffs plant in Kalayan, India. The plant is valued at $2 million.

Cuprous Chloride Produced At New Henry Bower Plant

Cuprous chloride is being produced by Henry Bower Chemical Manufacturing Company at Philadelphia. The company reports that in a recent test run the plant successfully met the requirements for various physical specifications as well as the rigid chemical specifications which Bower is prepared to offer in such uses as catalysts, phthalocyanine colors and special batteries. The unit adds to Bower's facilities for the manufacture of special copper salts.

Chemical Growth Is Seen Undiminished

Notwithstanding a fivefold increase in chemical sales since 1939, there is nothing on the horizon to point to a leveling off in the industry's phenomenal growth. This is the view of Dr. Charles Allen Thomas, president of Monsanto Chemical Company, St. Louis, Mo.

Chemical industry spending on expansion this year, he reported last week to the New York group of the Investment Bankers Association of America, will set a new record by topping $1.433 billion. In 1957, it should go over $1.576 billion.

Principal reason for the chemical industry's growth, Dr. Thomas contends, is the great attention it gives to research and development and the lavish amounts of money it spends to back up this effort. This, he says, averages around 3 percent of the chemical sales dollar and has totaled as much as $360 million annually.

The future looks very bright for the

—Continued on page 28

Columbian Opens Facility

Columbian Carbon Company, New York, has opened its third plant for manufacturing colloidal dispersions of carbon black. The new plant is located in Tacony (Philadelphia), Pa. Its output will supplement that of plants of Easton, Pa., and Toronto, Canada.

Virus Packaging Rules Are Sought by Drug Ass'n

A move to establish a set of standards for the packaging of live viruses and other disease-causing agents so as to permit a resumption of shipments of these products by air has been started by the American Drug Manufacturers Association at the request of Air Cargo, Inc.

Air shipments of etiologic agents have been virtually at a standstill since a container of live polio virus was damaged and spilled in an air carrier at the National Airport in Washington, D. C., several months ago. When the spilled liquid was finally identified and the danger assessed, Air Cargo placed a virtual embargo on such shipments in the future.

The Public Health Service is currently drawing up a set of regulations for industry comment requiring etiologic agents to be packaged in such a way that the containers will not become damaged and leak during the normal course of transportation.

Antibiotics Symposium Told of Five New Wonder Drugs

Discovery of five new wonder drugs was reported at the fourth annual Symposium on Antibiotics, held last week in Washington under the auspices of the Food and Drug Administration. The new antibiotics are:

- Ristocetin, said to be active not only against gram-positive bacteria but against the tubercle bacilli as well.
- PA 132, reportedly active against both gram-positive and gram-negative organisms, as well as fungi and protozoa.
- An oil isolated from a plant which was found to be active against fungi and the tubercle bacilli.
- Nucleocidin, shown to be effective against both gram-positive and gram-negative bacteria and regarded as another likely powerful weapon against the tubercle bacilli.
- Alazopeptin, demonstrated to be active against a form of experimental cancer, the so-called sarcoma 180 in mice.

In summing up the import of the more than 150 technical papers presented at the three-day symposium, Dr. Henry Welch, director of FDA's antibiotics division and chairman of the parley, singled out ristocetin as "outstanding" among the new antibiotics.

"Ristocetin," he pointed out, "kills bacteria rather than inhibiting their growth, an always useful property, and seems to be effective against those bacteria that are resistant to all other antibiotics now in use.

"Its toxicity in man is low and it appears quite likely that its discovery adds another useful drug in the fight against infections, particularly those caused by resistant organisms."

Commenting on PA 132, Dr. Welch said, "Preliminary evidence seems to indicate that its toxicity is high and therefore it is not useful in man. However, it is useful in combatting pathogenic fungal diseases in plants."

Olin Sells Lentheric To Simplify Activities

An agreement has been reached between Olin Mathieson Chemical Corporation, New York, and Helene Curtis Industries, Inc., Chicago, for the sale to Helene Curtis of Olin Mathieson's Lentheric Division and all the shares of stock of Lentheric, Inc.

The sale of Lentheric, according to Olin Mathieson, is consistent with the corporation's policy of concentrating in its major fields of activity.

Grace Gets Process Rights For Irradiation of Polyethylene

A new process, utilizing irradiation to modify and improve polyethylene and other polymers, has been acquired through an exclusive licensing agreement by W. R. Grace Co., New York, from Sequoia Process Corporation, Redwood City, Calif. Grace has acquired both United States and world rights to the "Hyrad" process and will actively promote the use of the irradiation process throughout the world.

EXPORT SALES MANAGER: L. Thomas Plouff, former manager of sales analysis and control for Ansul Chemical Company, Marinette, Wis., who has become export sales manager.

The irradiation process is said to give polyethylene resistance to heat, reduce cold flow and stress cracking, and increase tensile strength. It retains polyethylene's electrical insulation properties and its inertness to moisture and to many chemicals and corrosive liquids, it was pointed out.

Implements Program

T. T. Miller, president of Grace's polymer chemicals division, said "Grace's acquisition of the exclusive license under this new process implements our program now under way with the building of an $18 million plant in Baton Rouge, La., for the manufacture of a new high-density polyethylene licensed by Phillips Petroleum Company.

"The polymer chemicals division will supply polyethylene compounds and technical service know-how so that fabricators can use the process in manufacturing their own line of products. The process will thus combine the advantages of high-density polyethylene, which in itself marks a great advance in polyethylene properties, with the benefits of irradiation.

"Though commercial application has so far been limited to wire insulation," Mr. Miller said, "there are indications that improvement in qualities such as tensile strength and resistance to heat, to cold flow, and to cracking, may open many new fields of application for polyethylene. We visualize this happening in such end-uses as sterilizable containers, filaments, pipe and pipe linings, coatings, fibres, and insulation for electrical components. "This means," Mr. Miller added, "that the proc-

—Continued on page 48

Manpower Study Set For Atomic Industries

A survey of the needs for scientific and engineering manpower in private atomic energy industries will be conducted by Atomic Industrial Forum, Inc., New York, under contract to the Atomic Energy Commission.

Scheduled to begin immediately, the survey will cover current manpower supply and prospective needs in relation to the industry's privately supported atomic energy activities, as distinguished from work done under contract to the government. Information will be sought from all firms known to be engaged in or planning atomic energy work.

The survey's purpose is to develop direct, reliable information for the use of industry, colleges and universities and the government in planning and taking steps

—Continued on page 59

Insular Starts Vinyl Output

Production of vinyl resins has begun in the new plant of Insular Chemical Corporation, Hicksville, N. Y. Insular Chemical is jointly owned by Rubber Corporation of America, Hicksville, and Ross & Roberts division of Pollak Industrial Corporation, New York.

Chemstrand Lets Contract For Irish 'Acrilan' Plant

The construction contract for a $10 million Chemstrand, Ltd., "Acrilan" acrylic fiber plant in Northern Ireland has been awarded to the British firm of Costain John Brown, Ltd.

A. L. Davies, managing director of Chemstrand, Ltd., said major construction will get under way early next year at a site near Coleraine. Preliminary engineering work and site development is now under way, he said. Chemstrand, Ltd., is a wholly-owned subsidiary of Chemstrand, Corporation, Decatur, Alabama.

Mr. Davies said construction of the new plant will take about two years. It will employ about 400 people and produce 10 million pounds of "Acrilan" a year in the first stage. Meanwhile, Mr. Davies said, Chemstrand, Ltd., is importing a substantial amount of "Acrilan" fiber from the US for use in British goods which will be marketed there soon. Mr. Davies also announced that Chemstrand, Ltd., has opened its headquarters office in London.

The Week's Price Changes

Manganese Sulfate, Molasses, Greases, Linseed Oil Advance. Egg Albumin, Cod and Peppermint Oil, Potato Starch Decline.

Prices Advanced

Acid, linseed oil, 7/10c. per lb. (p. 60).
Greases, ¼c. to ¼c. per lb. (p. 60).
Lard, cash, ⅜c. per lb. (p. 60).
Manganese sulfate, 65%, $8.05 per ton (p. 33).
Molasses, New Orleans, 1½c. per gal. (p. 42).
New York, 2c. per gal.
Oil, lime, 15c. per lb. (p. 54).
Linseed, 7/10c. per lb. (p. 60).
Oleostearine, ½c. per lb. (p. 60).
Potassium stannate, 0.7c. per lb. (p. 33).
Silver bullion, ⅜c. per oz. (p. 33).
Cyanide, ⅝c. per oz. (p. 50).
Nitrate, ½c. per oz. (p. 50).
Sodium stannate, 0.9c. per lb. (p. 33).
Stannic chloride, anhyd., 0.9c. per lb. (p. 33).
Oxide, 2c. per lb. (p. 33).
Stannous chloride, anhyd., 1.2c. per lb. (p. 33).
Hydrous, 0.9c. per lb.
Sulfate, 1.2c. per lb. (p 33).
Tin, 1½c. per lb. (p. 33).
Tallow, edible, ½c. per lb. (p. 60).
Ined., ½c. per lb. (p. 60).

Prices Reduced

Blood, Chicago, 25c. per unit-ton (p. 45).
Cocoa butter, 1c. per lb. (p. 60).
Egg albumin, flake, 8c. per lb. (p. 49).
powder, 8c. per lb.
Linseed meal, $1 per ton (p. 60).
Oil, cod, ¼c. per lb. (p. 60).
Cottonseed, crude, ⅛c. per lb. (p. 60).
refd., ¼c. per lb.
Fish, refd., 1c. per lb. (p. 60).
Palmarosa, 50c. per lb. (p. 54).
Patchouli, 25c. per lb. (p. 54).
Peanut, crude, ½c. per lb. (p. 60).
refd., ½c. per lb.
Peppermint, nat., 25c. per lb. (p. 54).
redist., 30c. per lb. (p. 54).
Rapeseed, spot, 2c. per lb. (p. 60).
Potato starch, Idaho, ¼c. per lb. (p. 49).
Maine, ½c. per lb.
Tankage, Chicago, 25c. per unit-ton (p. 45).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER's relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

Oct. 19, 1956	Oct. 11, 1956	Oct. 21, 1955
109.15	109.18	106.82

Oil Import Formula to Hold

The Presidential Advisory Committee on Energy Supplies and Resources last week decided against making any change at this time in the formula for measuring the impact of oil imports on domestic production, but agreed instead to give importers another chance to cut back incoming supplies or face action by the government.

This was announced last week by Arthur Flemming, chairman of the advisory committee, after weeks of speculation over a possible change in the formula that would ease the problem of oil imports to the satisfaction of the independent domestic producers. More will be heard on this score from the producers at hearings opening today on the question of cutting back imports.

The advisory committee gave no reason for its action, but warned again that unless the objective announced in February, 1955, that imports of non-Canadian and non-Venezuelan crude oil be limited to an amount that does not significantly exceed the proportion that they bore to domestic production in 1954 is reached, the national security will be impaired in the period immediately ahead.

"The committee believes that the deviation from the above policy reflected in the import programs announced for the

—Continued on page 67

Freeport Installs Facilities To Speed Ship Unloadings

Freeport Sulphur Company, New York, has placed in operation new dock facilities at Port Sulphur, La., designed to cut by one-half the average loading time for ships and barges.

A ship loader has been installed on an extension of Freeport's Mississippi River dock at a cost of more than $1 million. This is the second part of a planned expenditure of $5 million.

Last year Freeport installed facilities to load sulfur in molten form for shipment by water to customers hundreds of miles away. These installations have since been enlarged.

ASSISTANT MANAGER: Harold A. Ford, former sales representative in Kansas City, Mo., for the Westvaco Chlor-Alkali Division of Food Machinery & Chemical Corporation, who has joined the industrial chemicals division of Olin Mathieson Chemical Corporation, Baltimore, Md., as assistant manager of nitrogen products.

Fritzsche Chemist Retiring

Dr. Edmund H. Hamann, chief flavor chemist of Fritzsche Brothers, Inc., New York, will retire from active service on January 1. However, he will be retained on a part-time basis as a special consultant.

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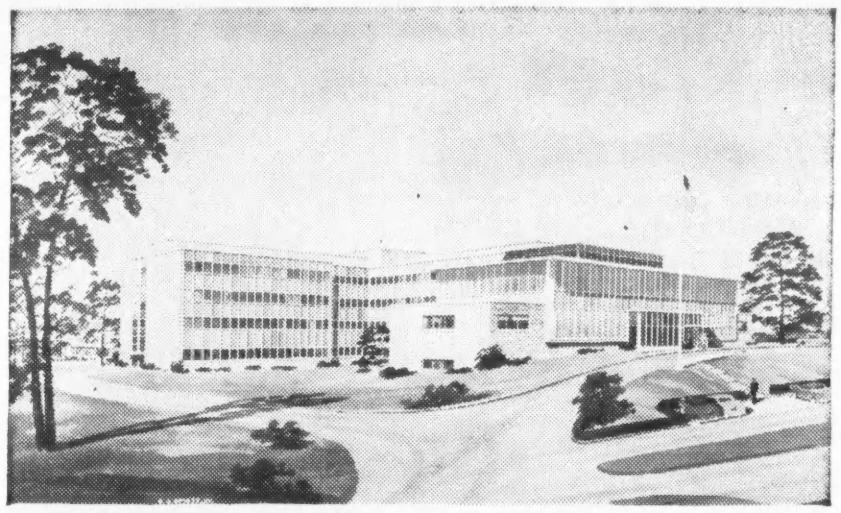


CARBIDE DEVELOPMENT LABORATORY: A four-story development laboratory of Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, at South Charleston, W. Va., will look like this when completed in mid-1958.

Carbide Is Prepared to Start Multi-Million Dollar Research Lab

A start will be made in South Charleston, W. Va., here this fall on a multi-million dollar program for a new development laboratory, D. B. Benedict, president of Carbide & Carbon Chemicals Company, New York, a division of Union Carbide & Carbon Corporation, has announced. The ultra-modern facilities, when completed in mid-1958, will bring together a majority of the scientists and engineers now working in many separate buildings of Carbide's development laboratories here. Mr. Benedict said that the need for the construction results from the expansion of Carbide & Carbon and the growth of Bakelite Company, another division. In recent years, the chemicals company has launched an average of fifteen new chemicals a year, and produces plastics and resins marketed by Bakelite. Last year the two divisions accounted for nearly 50 percent of Union Carbide's $1.187 billion sales.

ESSO VICE-PRESIDENT: O. V. Tracy, general manager of chemical products for Esso Standard Oil Company, New York, from 1949 until last January when he became a director of the firm, who has been elected a vice-president of the corporation.

Lab Built for Development Dep't

The development department, for whom the new facilities are being built, is concerned with turning laboratory chemicals into commercial products and in developing feasible industrial processes. Its staff is made up of organic chemists, physical chemists and chemical engineers.

The new project, Mr. Benedict said, includes a main laboratory building, a high-pressure laboratory building, a plastics pilot-scale building, and separate facilities for studies utilizing gamma radiation and radioactive tracers.

The main building will be a four-story structure with outside walls largely of glass. Individual laboratories, twenty-six by eleven feet in floor dimension, will for the most part be occupied by a single scientist, although in some instances two men will work together.

While the entire building will be air conditioned, the laboratories themselves will have separate air conditioning equipment to handle 100 percent fresh air with no recirculation. Thus experiments will be performed in conditions of extreme atmospheric cleanliness and uniformity. Specialized facilities have been designed for ultraviolet, infrared, mass, and emission

—Continued on page 59

Health News Unit Is Formally Set Up

Formal incorporation of the Health News Institute and the appointment of HNI officers was announced last week by Chet Shaw, executive director, following the first meeting of the board of trustees at the Waldorf-Astoria hotel, New York.

George F. Smith, president of Johnson & Johnson, New Brunswick, N.J., was elected chairman of the board. Kenneth F. Valentine, president of Pitman-Moore Company, Indianapolis, Ind., was elected president of HNI.

Mr. Shaw was named executive vice-president and J. Mark Hiebert, president of Sterling Drug, Inc., New York, vice-president. John K. Worley of Youngjohn, Worley & Brown, Detroit, was named sec-

—Continued on page 53

Titanium Dioxide Plant To Be Built in Japan

Brown, Blauvelt & Leonard, consulting engineering firm, New York, has been awarded a design and consulting contract to assist Nisso Steel Manufacturing Company, Tokyo, Japan, to develop a 300 ton/month titanium dioxide plant.

The plant will be located in the northern part of Japan, adjacent to Nisso's newest facility which produces pig iron and byproduct high titanium content slag from native iron-titanium beach sand.

SAACI Hears Defense Official Urge Chemical Industry's Help In Backing Reserve Program

The chemical industry was asked last week to get behind the nation's reserve program and help make it work. The plea was made by Carter L. Burgess, assistant Secretary of Defense for manpower, personnel and reserve, before the Salesmen's Association of the American Chemical Industry. Speaking before SAACI's fifth annual chemical sales clinic in New York, Mr. Burgess declared, "Many of our defense industries are not taking advantage of the opportunities we have provided in the two six-month reserve programs, although they were specifically designed for the benefit of their critically skilled employees and for their young job applicants."

Two Reserve Programs Explained

The secretary referred to the critical skill program and the six months training program for youths seventeen to eighteen and a half years of age. Both of these plans were set up under the reserve forces act of 1955.

Under the critical skill program, Mr. Burgess explained, certain workers over twenty in defense-supporting industry or research may enlist in the reserve for six-month terms. The remaining eighteen months of their military obligation is fulfilled in the ready or standby reserve.

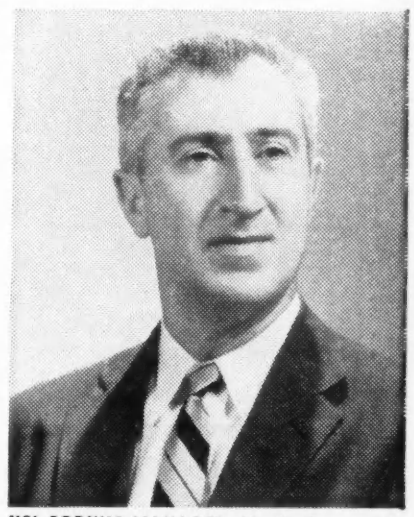
As of August 31, the Defense official reported, over 1,000 persons had been accepted in this program—about ninety of them from the chemical industry.

The six months training plan for seventeen-year-olds, Mr. Burgess pointed out, gives 100,000 or more youths the chance to "get their military service over with early and get on with a job in industry on an uninterrupted basis."

This program, he added, has given the nation "40,000 new trainees thus far, and it is moving ahead today at a rate of some 3,000 new enlistments monthly."

Other speakers at the SAACI clinic discussed selling technics. Werner C. Brown, director of sales for the cellulose products department of Hercules Powder

—Continued on page 41



USI SODIUM MANAGER: Martin Faye, made manager of sodium product sales for U. S. Industrial Chemicals Company, division of National Distillers Products Corporation, New York.

DuPont Establishes Dep't For Elastomer Chemicals

E. I. duPont de Nemours & Co., Wilmington, Del., has set up a new department, the elastomer chemicals department, to be responsible for research, production and sales for all products currently handled by the elastomers division of the organic chemicals department.

The new organiza ion, bringing the total of the company's operating departments to eleven, will have as its general manager Dr. George E. Holbrook, who is currently assistant general manager of the organic chemicals department.

Samuel G. Baker, recently appointed general manager of the organic chemicals department, will continue as head of that department. This step, which becomes effective January 1, was taken, duPont said, because the expanding business and products of the elastomers division now justifies the organization of the separate department.

Dr. William C. Kay, who is currently director of manufacturing of the organic chemicals department, will become assistant general manager of that department. Ernest R. Bridgewater, director of sales of the elastomers division, now becomes assistant general maanger of the new elastomer chemicals depar'ment.

Titanium Pigments Hike Due

Britain Titan Products Company, Ltd., is to expand titanium pigments production again at Grimsby at a cost of more than £2 million. The extension, which is due to be completed during 1958, will raise the production at Grimsby to 70,000 long tons a year, approximately seven times the output of the plant when it started in 1949.

Demurrage Request Set for Nov. Hearing

The Interstate Commerce Commission last week rejected a second request of the railroads for immediate application of higher demurrage charges and set the matter down for public hearing November 19. The chemical industry is expected to be among other industries protesting the move of the railroads.

Authority to impose higher charges for the time that shippers use in loading and unloading cars was first proposed in a new table of tariffs filed September 1 by the railroads, to take effect on short no'ice. The ICC turned down the proposal however, until it could investigate

—Continued on page 63

Shellac Uses Sought

Shellac is being studied by technologists at Battelle Institute, Columbus, Ohio, to uncover additional uses. The study is supported by the American Bleached Shellac Manufacturers' Association. In this research Battelle technologists will not only seek new direct applications for shellac in its present form, but will also prepare chemical modifications for the development of broader applications based on shellac.

Polyethylene Facility Is Slated for Scotland

British Hydrocarbon Chemicals, Ltd., jointly owned by Distillers Company, Ltd., and British Petroleum Company, Ltd., has authorized the design and construction at Grangemouth, Scotland, of a 25 million-pound-per-year polyethylene plant using Phillips Petroleum Company's new catalytic process for making polyethylene and other polyolefin plastics.

Phillips has licensed its polyolefin process to four major US chemical companies and six leading overseas firms in as many countries, and is itself constructing a 110 million-pound-a-year plant to produce the new polyethylene at its Adams Terminal chemical manufacturing site on the Houston Ship Channel in Texas.

AMA Drafting 'Model Law' on Labeling Chemicals

The toxicology committee of the American Medical Association has been authorized to draft a "model law" on the labeling of many possibly harmful chemicals for which there are no regulations at present.

AMA's board of directors said this was a first step towards protecting the public from potentially dangerous household and commercial chemicals.

The "model law" would serve as a guide for writing regulations which would require labels to show such information as the product's contents, its possible dangers, directions for safe use, and first aid instructions.

Products involved include auto care and repair materials, paints and paint removers, putty, soldering fluids, household cleansers and polishers, heating and cooking fuels, laundering items, art supplies, and toys containing chemicals.

The toxicology committee's secretary, Bernard E. Conley, estimates there are at least a quarter of a million different trade-name substances now on the market. Without proper labeling, physicians and the public cannot possibly know what harmful material they may contain or how to treat poisoning from them, it was pointed out.

The proposed law is intended to reduce careless and ignorant handling and storage of chemicals in the home, in small businesses and in other areas where control of exposure to the chemicals is not as efficient as it is in the manufacturing process, Mr. Conley said.

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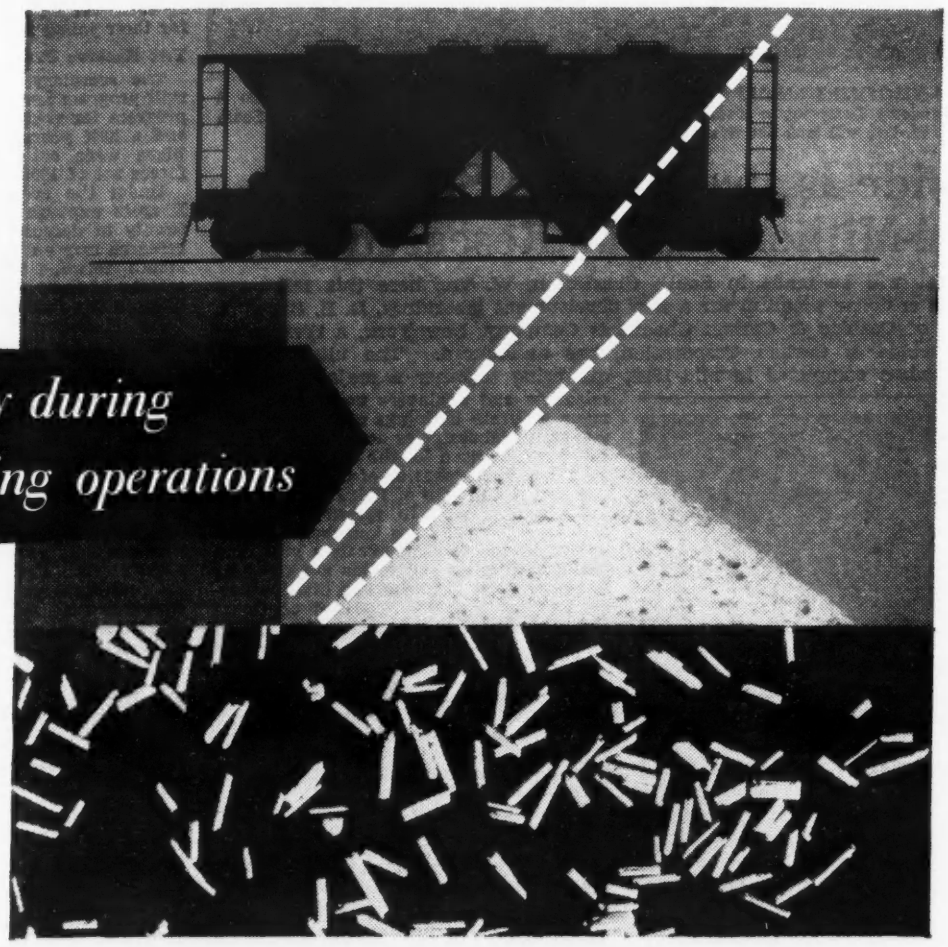

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Association Meetings

American Coke and Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 22-23.

American Standards Association, national conference on standards and annual meeting, Roosevelt hotel, New York, October 22-24.

Association of Consulting Chemists and Chemical Engineers, annual meeting and symposium, Belmont Plaza hotel, New York, October 23.

Combined Pharmaceutical Contact Committee of American Drug Manufacturers Association and American Pharmaceutical Manufacturers' Association, fall meeting, Washington hotel, Washington, D.C., October 23-24.

Federation of Paint and Varnish Production Clubs, annual meeting and paint industries' show, Netherlands Hilton hotel, Cincinnati, Ohio, October 21-24.

National Pest Control Association, annual convention, Detroit, Mich., October 22-25.

Agricultural Ammonia Institute, annual convention, Atlanta Biltmore hotel, Atlanta, Ga., November 7-9.

Air Pollution Control Association, semi-annual meeting, Rice hotel, Houston, Tex., December 3-5.

American Council of Independent Laboratories, annual meeting, Savoy Plaza hotel, New York, October 28-November 1.

American Institute of Chemical Engineers, annual meeting, Statler hotel, Boston, December 9-12.

American Petroleum Institute, annual meeting, Conrad Hilton hotel and Palmer House, Chicago, November 12-15.

American Pharmaceutical Manufacturers' Association, winter meeting, Waldorf-Astoria hotel, New York, December 10-12.

Armed Forces Chemical Association, annual dinner meeting, Delmonico hotel, New York, November 15.

Association of American Soap and Glycerine Producers, annual convention, Waldorf-Astoria hotel, New York, January 23-25.

Chemical Market Research Association, Harvard Business School, Cambridge, Mass., November 13-14.

Chemical Specialties Manufacturers Association, annual meeting, Mayflower hotel, Washington, D. C., December 3-5.

Commercial Chemical Development Association, Netherlands Hilton hotel, Cincinnati, Ohio, November 1.

Manufacturing Chemists' Association, midwinter conference, Statler hotel, New York, November 20.

National Agricultural Chemicals Association, Mellon Institute, Pittsburgh, Pa., November 16-17; spring meeting, Fairmont hotel, San Francisco, March 6-8.

National Chemical Exposition, Public Auditorium, Cleveland, Ohio, November 27-30.

National Foreign Trade Council, annual convention, Waldorf - Astoria, New York, November 26-28.

National Paint, Varnish and Lacquer Association, annual convention, Statler, Ambassador and Biltmore hotels, Los Angeles, November 12-14.

National Wholesale Druggists Association, Hollywood Beach hotel, Hollywood, Fla., November 10-15.

Parenteral Drug Association, annual meeting, Barbizon Plaza hotel, New York, October 31-November 2.

Proprietary Association, scientific section, winter meeting, Waldorf-Astoria hotel, New York, December 11.

Society of Rheology, annual meeting, Mellon Institute and Webster Hall hotel, Pittsburgh, Pa., November 7-9.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, November 7; annual meeting and dinner, Biltmore hotel, New York, December 3.

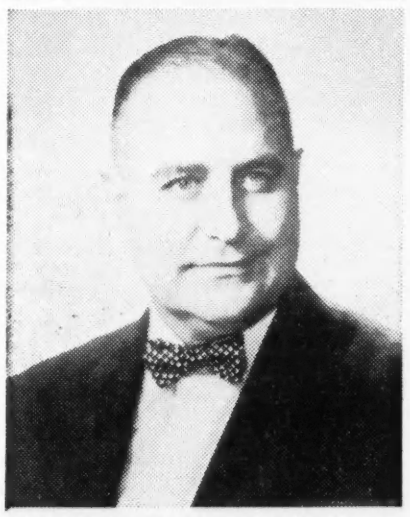
DuPont to Be 'Capitalism' Subject For Broadcast on Voice of America

E. I. duPont de Nemours & Co., Wilmington, Del., has been selected by Voice of America to be the example of "People's Capitalism" to be depicted in a series of special programs for broadcasting in more than thirty languages. In the most comprehensive coverage of a special event in its history, the Voice is sending a team of nearly fifty reporters, announcers and technicians to Wilmington this week to interview duPont employees, including union representatives, scientists and executives who emigrated from forty-four foreign countries and are fluent in the languages of their original home lands.

The recorded programs will present Voice of America audiences with an on-the-spot picture of the place of a large industry in the American economy and society, its contributions to our way of life, its widespread stock ownership, and its relations with labor and the community in which it operates.

Coverage of the event has been arranged through the cooperation of duPont officials. The Voice reporting team will be taken on guided tours of the duPont plants, research laboratories, the experimental station and executive offices. Special round-table discussions in English by

—Continued on page 58



DIVISION MANAGER: Alfred D. Bonanno, named manager of the paper division by Kelco Company, New York, in which post he will supervise sales and technical service of its line of surface sizing agents to the paper industry.

AIChE Sets Plans For Annual Meeting

Latest developments in automatic process control, chemical engineering in the pulp and paper industry, low temperature processing and design, chemical sales engineering, and nuclear developments, will highlight the forty-ninth annual meeting of the American Institute of Chemical Engineers in the Statler hotel, Boston, December 9 through 12. More than 3,000 engineers, scientists and industrialists are expected to attend.

Panel discussions and symposia will be held on: "So You Want to Own Your Own Business," a discussion of the pros and

—Continued on page 44

Resins Facility Going Up At Auckland, New Zealand

Polymers (N. Z.) Pty., Ltd., affiliate of Polymer Corporation Pty., Ltd., of Homebush, Australia, is erecting a synthetic resins plant at Auckland, New Zealand, according to the Canadian Department of Trade and Commerce. The facility is expected to start up operations sometime this year. Bulk of the company's business consists of the manufacture of alkyd resins for use in synthetic enamels and paints of the high-gloss type.

Belgian Chemical Industry Facing Bright Prospects Now, But the Future Is Uncertain

The immediate outlook for the Belgian chemical industry is good but over a longer period it is somewhat uncertain, according to the Business and Defense Services Administration. The industry's ultimate future depends to a great extent upon its investment and research efforts, and these are not on a par with those of its principal competitors, BDSA says. Chemical activity in Belgium was generally higher in 1955 than in 1954, although foreign competition continued to make itself strongly felt.

The annual rate of investment in the chemical industry has been estimated at about one billion francs in recent years, about half of which is believed to be used to replace old equipment, BDSA reports. The value rose to 1.35 billion francs in 1955 and is expected to reach 1.8 billion in 1956 if the industry continues to operate at current levels.

50 Percent Exported

About 50 percent of the chemical output is exported, a proportion which varies considerably from sector to sector. Total exports of chemical products were valued at 11.2 billion francs in 1955, 13 percent more than in 1954. The tonnage rose 10 percent, from 2,025 million tons to 2,224 million in 1955, and would have been higher except for strikes, BDSA points out.

As a result of the strikes and increased iron and steel exports in 1955, chemical shipments accounted for 8 percent of total exports, compared with 8.5 percent in 1954. For the first time since 1951, the average unit price of chemical exports increased in 1955.

Chemical raw material imports are considered a barometer of activity in the Belgian industry. They totaled 2.8 billion francs in 1955, 23 percent more than in 1954. Tonnagewise, they were 6 percent greater.

The relationship between the total value of imported competing chemical products and that of Belgian exports continued to be in Belgium's disfavor.

Imports in this category increased 19 percent, to 6,806 million francs in 1955, from 5,683 million in 1954. Both the quantity and the unit value of these imports increased 9 percent. Total Belgian chemical exports in 1949 were twice the

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Agricultural Chemists Plan Award Honoring Dr. Wiley

Kenneth D. Jacob, president of the Association of Official Agricultural Chemists, last week announced the establishment of the Harvey W. Wiley award for analytic methods at the association's seventieth annual banquet in Washington, D. C. The award honors the memory of the "father" of the pure food and drug law, who was also one of the founders of the association.

Mr. Jacob said that the annual award, which carries a cash prize of $500, will be presented to the scientist or group of scientists who make an outstanding contribution to development of methods of analysis of foods, cosmetics, drugs, fertilizers, pesticides, and soil, as well as for methods in general analytical chemistry. These are the fields of interest of the AOAC.

The first award will be given at the seventy-first annual meeting of the association in October, 1957. All scientists, whether members or non-members of the AOAC, are eligible for the award.

M. P. Etheredge, vice-president of Mississippi State College, was elected president of the association for the new year. Other officers are: Vice-president, Frank A. Vorhes, jr., chief of the food division of the Food and Drug Administration, and secretary-treasurer, William Horwitz, of the Food and Drug Administration.

RESEARCH VICE-PRESIDENT: Dr. Daniel H. Terry, elevated from research director of the Bon Ami Company, New York, to vice-president in charge of research and development.

Anhydrous Ammonia Role to Be Reviewed

How anhydrous ammonia is helping meet the nation's need for agricultural nitrogen will be reviewed at the sixth annual convention of the Agricultural Ammonia Institute in Atlanta, Ga., November 7 through 9.

Leading agricultural authorities will take part in the convention program. Appearing on a panel, "Pasture Improvement and Fertilization," on November 8 will be: Dr. D. R. Dodd, of Hedgesville, W. Va., chairman emeritus of the Ohio State agronomy department; W. R. Thompson, leader, extension agronomy, Mississippi State College, and George A. Rogler, research agronomist, field crops research branch, Agricultural Research Service, Great Plains Experiment Station, Mandan, N. D.

Dr. C. C. Murray, dean of the College of Agriculture, University of Georgia, will

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Metalsalts Corp. Develops 'Meta-San,' New Fungicide

Metalsalts Corporation, Hawthorne, N. J., has developed a new fungicide and bactericide called "Meta-San." The new product, according to the company, is an outgrowth of extensive research in its specialized field of mercury and mercurials.

The material is said to be readily soluble both in water and a wide range of organic solvents. For this reason, it is reportedly ideally suited for use as an effective mildewcide and preservative, both in oil and water-base paints. In solid form the product is called "Meta-San."

When a liquid preparation is sought, "Meta-San O" is offered for oil-base paints and "Meta-San W" for water base paints.

Drug Reaction Study Started in Hospitals by FDA

Prompt reporting of unusual or adverse reactions to drugs is the objective of a new joint study being carried on by eleven hospitals, the Food and Drug Administration has announced.

The pilot reporting system, sponsored by FDA, is being developed with the collaboration of the American Association of Medical Record Librarians, the American Society of Hospital Pharmacists, the American Medical Association, and the American Hospital Association, FDA said.

Such a reporting system has been undertaken, to obtain information regarding effects of drugs which may appear in some patients when they are administered to large numbers of people. This problem has been magnified by the increasing number of potent new drugs. Even the most extensive clinical studies cannot forecast all types of drug reactions which may develop throughout the population. Hospitals provide an ideal site for observing the effects of drugs and obtaining essential information which is not available from other sources, FDA added.

This joint study is being undertaken in the interest of public health, better patient care, and the furtherance of the objectives of the food, drug and cosmetic act to insure the safe use of drugs, FDA said.

Participating are: George Washington University Hospital, Washington, D. C.; Grace Hospital, Detroit, Mich.; Hartford Hospital, Hartford, Conn.; Oakwood Hospital, Dearborn, Mich.; Lakewood Hospital, Lakewood, Ohio; Medical College of Virginia Hospital, Richmond, Va.; St. Joseph's Hospital, Providence, R. I.; Naval Hospital, Bethesda, Md.; Public Health Service Hospital, Baltimore, Md.; Walter Reed Army Hospital, Washington, D. C., and Western Pennsylvania Hospital, Pittsburgh, Pa.

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Polyhydric Alcohol Content	Min. 70% $H_8C_{14}O_8$
Total Solids	70 - 71%
Assay for D-Sorbitol	Min. 64%
Reducing Sugars (as glucose)	Max. 0.10%
Residue on Ignition	Max. 0.02%
Iron (Fe)	Max. 0.0003%
*p*H	6.0 - 7.5
Specific Gravity (at 25°/25°)	1.285 - 1.305
Chloride (Cl)	Max. 0.0050%
Sulfate (SO_4)	Max. 0.010%
Arsenic (As)	Max. 0.000075%
Heavy Metals (as Pb)	Max. 0.0010%
Nickel	Max. 0.0005%

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CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, October 19 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene below 92.5 C. m.p., dms., works lb. .40 - —
above 92.5 C. m.p. bbls., dms., lb. .41 - .50
Acetaldehyde 99% dms., c.l., divd. lb. .12 - —
l.c.l., divd lb. .13½ - —
tanks, divd lb. .10 - —
Acetaldol (see Aldol).
Acetanilide tech. flaked, bbls., bgs., c.l., frt. alld lb. .30½ - —
ton lots lb. .31½ - —
smaller lots lb. .34½ - —
USP, bbls., 2,000-lb. lots lb. .79 - —
smaller lots lb. .80 - .81
Acetic anhydride dms. c.l. divd E. lb. .16½ - —
l.c.l., divd. E lb. .17 - —
tanks, divd E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., divd lb. .80 - —
l.c.l., divd lb. .81 - —
Acetoacet-o-chloroanilide, fib dms., c.l., divd lb. 1.35 - —
l.c.l., divd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., divd. lb. .82 - —
l.c.l., divd lb. .83 - —
Acetone, CP dms., c.l., divd. lb. .10½ - —
l.c.l. divd lb. .11½ - —
tanks, divd lb. .08 - —
Methyl (see M)
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 - 1.19
Acetophenone, cns., dms lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .73 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech., non-ret. dms. c.l. frt alld. E of Denver lb. .36 - —
l.c.l., frt alld E of Denver lb. .35 - —
tanks frt alld E of Denver. lb. .33 - —
Acetyltributyl citrate, tech., non-ret dms., c.l., frt. alld. E. of Denver lb. .39 - —
l.c.l. frt alld E of Denver. lb. .40 - —
tanks, frt alld E of Denver. lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt alld lb. .60 - —
Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490 - —
cryst., dms. c.l. works lb. .06½ - —
l.c.l., works lb. .07 - .07½
Acetic, coml. or redist., 28%, bbls 100 lbs. 4.60 - —
56% bbls 100 lbs 8.25 - —
70% bbls 100 lbs. 9.95 - —
80% bbls 100 lbs.10.45 - —
glacial, syn., CP dms., divd. .00 lbs.22.00 -23.00
tech. dms. c.l. divd 100 lbs.13.75 - —
l.c.l., divd. 100 lbs.14.25 - —
tanks, divd 100 lbs.10.00 - —
USP chys., inclusive, divd., 100 lbs.31.00 -32.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb lots, point of shipt lb. .61 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (60 mesh) bbls. 1,000-lb lots. lb. .56 - .58
Freight equald, shipt, identical quantity over standard routes, from N. Y., Phila., Midland, Mich. Chicago and St. Louis.
Adipic, bgs., c.l. divd lb. .32 - —
l.c.l., divd lb. .34¾ - —
Aminoacetic, NF bbls., frt. adjusted lb. 1.50 - 1.75
p-Aminobenzoic, tech., dry, dms., works lb. 1.74 - 1.77
USP dms. 1,000-lb. lots or more, works lb 2.50 - —
smaller lots works lb 2.55 - 2.60
p-Aminosalicylic dms., 100 lbs or more, frt. adjusted lb. 3.70 - —
Anthranilic, 99%, 150-lb dms., divd lb. 1.15 - —
Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide)
Ascorbic USP dms., 25-100 kilo lots kilo.12.00 - —
10-kilo lots kilo.12.35 - —
5-kilo lots kilo.12.75 - —
bots. 1-kilo lots kilo.13.00 - —
500-gram lots kilo.13.50 - —
Battery, chys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
Benzoic, tech., bbls., dms., 100-lb lots or more lb. .44 - —
USP, bbls. dms. 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech. 99.9%, cryst., bgs., c.l., works ton.126.75 —
ton lots, ex whse, N. Y. or Chi ton.176.50 - —
smaller lots same basis. ton.181.50 —
dms., c.l., works ton.151.25 -172.25
ton lots, ex whse. N. Y. or Chi ton.201.00 -222.00
smaller lots, same basis. ton.206.00 -227.00
gran., bgs., c.l., works ton.101.75 - —
ton lots, ex whse. N. Y. or Chi ton.151.50 - —
smaller lots, same basis. ton.156.50 - —
dms., c.l., works ton.126.25 -147.25
ton lots ex whse. N. Y. or Chi ton.176.00 -197.00
smaller lots, same basis. ton.181.00 -202.00
bulk, c.l., works ton.95.75 - —
Boric, tech., 99.9%, powd., bgs., c.l., works ton 106.75 - —
ton lots, ex whse, N. Y. or Chi ton.156.50 - —
smaller lots, same basis. ton..161.50 —
dms. c.l. works ton.131.25 -132.25
ton lots, ex whse., N. Y. or Chi ton.181.00 -202.00
smaller lots, same basis. ton.186.00 -207.00
Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric Acid $25 per ton higher.
Broenners, bbls lb. 1.76 - —
Butyric, 99%, dms., c.l., works lb. .34 - —
l.c.l., works lb. .34½ - —
tanks, works lb. .32½ - —
Capric, dms lb. .25 - .27
Caprylic, dms lb. .25 - .27
Cassella, dms. frt alld., 100% basis lb 1.44 - 1.75
Castor oil, dms lb. .17¾ - .19¾
Chicago paste bbls., frt alld lb. 3.21 - —
Chloroacetic mono purif., flake, 99%, dms lb. .23½ - .25½
tech. flake 96-97%, dms., frt. equald lb. .20 - .21
o-Chlorobenzoic, fib dms., t.l., works lb. 1.10 - —
smaller lots, works lb. 1.25 - —
Acid, p-chlorobenzoic, fib. dms., 2,000 lbs. or more, works lb. 2.25 - —
less than 2,000 lbs., same basis. lb. 2.30 - —
Chlorosulfonic, dms., c.l., frt. equald lb. .0465 - —
l.c.l., frt. equald lb. .0515 - —
tanks, frt equald lb. .0415 - —
Acid, chlorosulfonic, in stainless steel dms. ½c per lb higher.
Chromic, 99¾%, dms., c.l., works, frt. equald lb. .29½ - —
l.c.l., dlvd. N. Y. Metropolitan area lb. .30 - .31
NF (see Chromium trioxide).
Cinnamic, refd., bots lb 2.50 - 3.50
Citric, USP anhyd., gran., fine gran., bgs., dms., c.l. lb. .29½ - .30
10,000-lb lots, 1 shipt. lb. .30 - .30½
smaller lots lb. .30½ - .31
hydrous, gran., fine gran., bgs., dms., c.l lb. .27½ - .28
10,000-lb lots, 1 shipt. lb. .28 - .28½
smaller lots lb. .29 - .29½
Powdered citric acid ½c. higher.
Cleve's, mixed, bbls lb. 1.05 - —
Coconut oil, dist., dms lb. .25 - .27
tanks lb. .23 - —
dbl dist., dms lb. .25 - .27
tanks lb. .23 - .24
Corn oil, dist. dms lb. .16¾ - .18½
tanks lb. .14¾ - —
Cottonseed oil, dist., dms lb. .15¾ - .17¾
tanks lb. .13¾ - —
2,3-Cresotic, dms., ton lots, works, lb. .70 - —
less than ton lots, works lb. .72 - —
Cresylic, oaltar, dom., resin and tricresyl phosphate grade, 50%, 207° or above, tanks, frt. equald. gal. 1.10 - —
204° to 207° C., tanks, frt. equald gal. 1.20 - —
non-resin grade, 50%, 210° or above, total range over 9° C., dms., c.l., frt. equald. gal. 1.15 - —
l.c.l., frt equald gal. 1.19 - 1.20
tanks, frt. equald gal. 1.00 - —
Imp. 75% at 215° C. or over, dms., ex whse gal. .95 - —
petroleum, dom., 195° to 214° C., non-ret. dms., 65 to c.l., works, San Francisco and Los Angeles gal. .80 - —
l.c.l., same basis gal. .82 - .84
tanks, same basis gal. .65 - —
200° C. to 222° C., tanks, Wilmington, Cal lb. .63 - .72
211° C. to 237° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .76 - —
l.c.l., same basis gal. .78 - .80
tanks, same basis gal. .61 - —
220° C. to 242° C., tanks, Wilmington, Cal lb. .62 .67
245° C. to 295° C., tanks, Wilmington, Cal gal. .50 - —
Crotonic, fib. dms., 200 lbs. or more, works lb. .50 - —
Cyanoacetic, tech., bbls. lb. .90 - 1.25
Dichlorophenoxyacetic (see 2,4-D).
Diethylbarbituric (see Barbital).
Diglycolic, bgs., works lb. .14 - —
Dithiodibenzoic, dms., 1,000-lb. lots, works lb. 1.45 - —
2-Ethyl hexoic, dms., c.l., divd. lb. .37 - —
l.c.l., divd lb. .38 - —
tanks, divd lb. .34½ - —
F, crude, paste, bbls. works lb 2.10 - —
Folic, bots fio cns kilo-lots or more gram. 1.40 - —
Formic, 85%, chys., c.l., works lb. 1570 - —
l.c.l., works lb. .1620 - .1720
90%, chys., c.l., works lb. .1625 - —
l.c.l. works lb. .1675 - .1775
Fumaric, tech. bgs., dms., c.l., frt. alld. E lb. .25½ - —
l.c.l., same basis lb. .26½ - —
Gallic, NF VII bbls. 1,000-lb lots lb. 1.80 - —
smaller lots lb. 1.82 - 2.00
tech., bbls., 1,000-lb. lots lb. 1.58 - —
smaller lots lb. 1.82 - 2.00
Gamma dry, grd. bbls. frt. alld. lb. 1.50 - —
paste bbls frt alld lb 1.45 - —
Gluconic, tech., 50% bots lb .23 - .35
chys lb. .19 - —
dms. lb. 15½ - —
l-Glutamic, 99½% fib dms., 100-lb. lots, frt. alld lb. 2.00 - —
25-lb. lots, frt. alld lb. 2.05 - —
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
l.c.l., same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., chys lb. 2.94 - —
1.70 s.g., chys lb. 3.23 - —
Hydrobromic, medicinal, 48%, chys., divd. E lb. .37 - .43
Hydrochloric, anhyd. (see Hydrogen chloride).
18° chys., c.l., works 100 lbs. 2.30 - —
l.c.l., divd., Metropolitan area 100 lbs. 2.90 - 3.05
tanks works, frt equald ton.28.00 - —
20° chys., c.l., works 100 lbs. 2.75 - —
l.c.l., divd., Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ton.30.00 - —
22° chys., c.l., works 100 lbs. 3.25 - —
l.c.l., divd., Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt. equald ton.35.00 - —
CP, USP consumers, chys., extra, c.l., works lb. .15¾ - —
l.c.l., same basis lb. .17¼ - .17¾
5-pint bots, extra, cs., c.l., same basis lb .20¾ - —
l.c.l., same basis lb. .22¼ - .23¼
Acid, hydrochloric, CP, USP, prices to dealers 1½c. per lb. less.
Hydrocyanic, cyls. c.l., divd. lb. .70 - —
l.c.l., same basis lb. .75 - .90
dilute, NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
aqueous, 70%, 55-gal. dms., c.l., t.l., divd 100 lbs.19.25 - —
l.c.l., t.l.l., divd 100 lbs.20.75 - —
20-gal. dms., c.l., t.l., divd. 100 lbs.21.00 - —
l.c.l., t.l.l., divd 100 lbs.22.50 - —
tanks, works, frt. equald. 100 lbs.15.50 - —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington, and Wyoming. In those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic, dms., works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —
Hypophosphorus, purif., 50%, chys lb. 1.30 - 1.32
USP, chys. lb. .88 - —
Isonicotinic, 100-lb fib. dms., works lb. 4.25 - —
Hydrazide (see Isoniazid).
Itaconic, tech., fib. dms., c.l., works lb. .43 - —
l.c.l., works lb. .44 - —
purif., fib. dms., c.l., works lb. .53 - —
l.c.l., works lb. .54 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns		
AMP	American melting point	dlvd.	delivered	No.	number
anhyd.	anhydrous	dms.	drums	nom.	nominal
a.p.a.	available phosphoric acid	dom.	domestic	o-	ortho
approx.	approximately	E.	east	ord.	ordinary
artif.	artificial	e.p.	end point	oz.	ounce
ASTM	American Society for Testing Materials	equald.	equalized	p-	para
		exp.	expressed	Pac.	Pacific
Atl.	Atlantic	F	fahrenheit	pf.	proof
Be.	Baume	ferment.	fermentation	phos.	phosphate
bbls.	barrels	f.f.a.	free fatty acid	photo.	photographic
bgs.	bags	f.f.c.	free from chlorine	pkgs.	packages
bls.	bales			pow'd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
		frt.	freight	pulv.	pulverized
b.r.	boiling range	gal.	gallon	purif.	purified
bxs.	boxes	gran.	granular	redist.	redistilled
C.	centigrade	grd.	ground	refd.	refined
cbys.	carboys	i.&a.	iron and aluminum	refy.	refinery
CD	completely denatured	i.b.p.	initial boiling point	reg.	regular
		imp.	imported	resub.	resublimed
c.i.f.	cost, insurance, freight	incl.	included	ret.	returnable
		indust.	industrial	SD	specially denatured
cks.	casks	kgs.	kegs	s.d.	single distilled
c.l.	carlots	l-	laevo	S. E.	southeast
cns.	cans	lacq.	lacquer	sec.	secondary
coml.	commercial	lb.	pound	secs.	seconds
conc.	concentrated	l.c.l.	less than carlots	s.g.	specific gravity
CP	chemically pure	l.t.l.	less truckload	ship't	shipment
		liq.	liquid	soln.	solution
cps.	centipoises	mfrs.	manufacturers	s.u.	standard unit
cryst.	crystal	m-	meta	syn.	synthetic
cs.	cases	m.a.p.	mixed aniline point	tanks.	railroad tankcars
ctns.	cartons			tech.	technical
cyls.	cylinders	min.	minimum	tert-	tertiary
		m.p.	melting point	t.l.	truck loads
d-	dextro	N-	nitrogen	t.w.	tank wagons
dbl.	double	n-	normal	USP	U. S. Pharmacopoeia
denat.	denatured	nat.	natural	vis.	viscosity
dest-dist.	destructive-distilled	neut.	neutral	VM&P	varnish makers & painters
dl-	dextro-laevo	NF	National Formulary	W.	west
dist.	distilled			whse.	warehouse
				w. w.	water-white

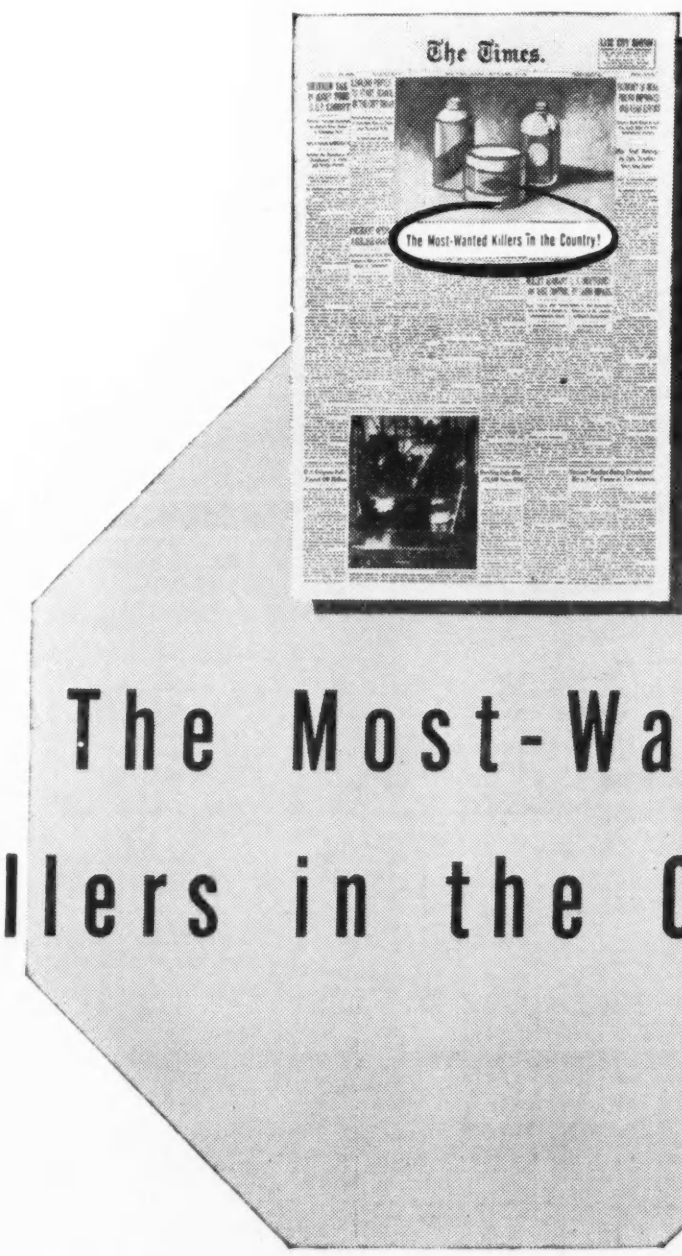
A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, J, paste, bbls., works, 100% basis lb. 2.45 - —
powd, bbls., same basis ... lb 2.50 2.85
Koch, bbls., frt. alld., 100% basis. lb. 1.00 —
L, buls., works ... lb. 1.25 —
Lactic, edible, 50%, bbls., 20 or more lb. .1821- .215
smaller lots ... lb. .1921- .225
80%, bbls., 5 or more ... lb. .3121- .37
smaller lots ... lb. .3171- .375
plastic grade 50%, bbls., 20 or more, works lb .23 —
1 to 19 ... lb. .235 - —
80%, bbls., 5 or more ... lb. .385 - —
tech., 22% bbls., c.l., works 100 lbs 6.30 - —
l.c.l., works 100 lbs 6.70 - —
cbys., l.c.l., works 100 lbs. 12.20 —
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
t.c.l., works ... 100 lbs 11.85 -12.35
USP, 85%, cbys. ... lb 85 .88
Laurent's, bbls ... lb 60 —
Lauric, 90%, dms ... lb. 36½ .38½
Linseed oil, dist., dms ... lb. .1970- —
w.w., dms ... lb. .2270- —
Maleic, cryst. powd. dms ... lb 37 .38
Malic, tech., dms ... lb. 50 —
Mandelic, NF dms, 1,000-lb lots. lb 2.35 —
smaller lots lb 2.40 2.50
Metanilic, dms., works lb 57 75
Methacrylic, glacial, 98%, dms., truckloads, works lb. 54½- —
smaller lots, works lb 55 —
Molybdic, 85%, dms., works ... lb. 1.20 - —
Monochloroacetic purif. (see Acid, Chloroacetic mono-)
Muriatic (see Acid, hydrochloric).
Myristic, dms lb 26 .28
1-naphthol-4 sulfonic (see Acid, Neville and Winthers)
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-5-sulfonic, 8-amino (see Acid, S)
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H)
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
2-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's)
2-Naphthylamine-4,8-disulfonic (see Acid, Casella)
2-Naphthylamine-6-sulfonic (see Acid, Broener's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).
Nevile and Winther's, dms., frt. alld lb. 1.30 - —
Nicotinic USP dms., dlvd kilo 8.00 8.30
Amide, USP (see Nicotinamide).
Nitric, 36° Be, cbys., c.l., works, E 100 lbs. 5.75 —
l.c.l., works, E ... 100 lbs. 6.05 6.85
38° Be, cbys., c.l., works, E. 100 lbs. 6.25 —
l.c.l., works, E ... 100 lbs. 6.55 - 7.35
40° Be, cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E ... 100 lbs. 7.05 7.85
42° Be, cbys., c.l., works, E. 100 lbs. 7.25 - —
l.c.l., works, E ... 100 lbs. 7.55 - 8.35
88.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs 4.90 —
CP, NF, consumer, cbys., extra, c.l., works ... lb. .18½- —
l.c.l., same basis lb. .20 - .20½
5 pt. bots extra, cs., c.l., same basis lb. .22½- —
l.c.l., same basis lb. .24 - .25
p-Nitrobenzoic, dms, c.l. works. lb. 72 —
l.c.l., works ... lb. 73 - —
Oleic, s.d., dms ... lb. .18½- .20½
tanks ... lb. .16½- —
dbl. dist. (white) dms. ... lb. .20½- .22½
tanks ... lb. .18½- —
Oleum (see Acid, sulfuric, fuming)
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Creosotic).
Oxalic, bbls, c.l., works ... lb .16½- —
10,000-lb lots, works ... lb. .16¾- —
smaller lots, works ... lb. .17¼- —
b-Oxynaphthoic fib dms, 250 lbs. or more, frt. alld lb 1.14 1.17
Palm, dist., dms ... lb. .14¾- .16¾
tanks ... lb. .12¾- —
Para-aminobenzoic (see Acid, p-Aminobenzoic).
Para-aminosalicylic (see Acid, p-Aminosalicylic)
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Peri, dry, frt. alld, ... lb. 1.35 - —
paste, frt. alld, ... lb. 1.30 - —
Phenylacetic, pure, cryst., cns. lb. 1.45 - 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see mandelic)
Phosphoric, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 6.75 - —
l.c.l., same basis 100 lbs. 7.00 - 7.50
tanks, works ... 100 lbs. 5.35 —
80% cbys. c.l., frt. alld. 100 lbs. 7.60 - —
l.c.l., works ... 100 lbs 7.85 9.10
tanks, works ... 100 lbs. 5.75 - —
NF, 85%, cbys., c.l., works lb. .0825- —
c.l., works ... lb 0850- .0975
tanks works ... lb 0640- —
Picric, NF, bbls ... lb. .85 - —
tech., bbls ... lb. .44 - —
Propionic, syn., pure, dms., c.l., frt. alld lb. 22¾- —
l.c.l. frt. alld ... lb. 23¾- —
tanks, frt. alld ... lb 20¾- —
Pyrogallic, NF (see Pyrogallol)
tech. bbls lb 2.76 2.99
Ricinoleic (see Acid, castor oil, split).
S., bbls., works ... lb 3.25 - —
Salicylic, crude fib. dms. c.l., frt. alld lb. .35 - —
l.c.l., frt. alld. u.c. 100 lbs. or more lb. .36 - —
sublimed, tech., fib. dms., c.l., dlvd lb. .37 - —
l.c.l., dlvd. ... lb. .41 - —
USP, cryst., fib. dms ... lb. .48 - —
powd., fib. dms ... lb. .55 - —
Sebacic, purif., dms., c.l., works lb. .64 - —
l.c.l., works ... lb. .66 - .70
Soybean oil, dbl. dist., dms ... lb. .18¾- .20¾
tanks ... lb. .16¼- —
s.d., dms ... lb. .17¼- .19¼
tanks ... lb. .15¼- —
Stearic, dbl. pressed, bgs ... lb. .15¼- .17¼
single pressed, bgs ... lb. .14¾- .16¾
triple pressed, bgs ... lb. .17½- .19½
Succinic, purif., cryst., bbls., works lb. .62 .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .21 - —
l.c.l., frt. alld ... lb. .23 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs 2.00 - —
l.c.l., works ... 100 lbs 2.45 - —
tanks, works ... ton 18.60 - —

Acid, sulfuric, 66° Be, cbys., c.l., works ..100 lbs. 2.25 - —
l.c.l., works ... 100 lbs. 2.55 -3.35
tanks, works ... ton 22.35 - —
98% tanks, works ... ton 23.50 - —
99-100%, tanks, works ... ton 23.95 - —
CP, NF, consumers, frt, equald. lb. .12¾- —
l.c.l., same basis .. lb. .14¼- .14¾
5-pt. bots., extra cs., cl., works, frt. alld lb. .16¼- —
l.c.l., same basis lb. .18¼- .18¾
fuming (oleum), 20%, tanks, works ton 25.00 - —
40%, tanks, works ... ton 29.00 - —
65%, tanks, works ... ton 39.50 - —
Tall oil, dms., c.l., works ... lb. .09 - .09½
tanks, works ... lb .07½ .08
Tallow dist., dms ... lb. .15¼- .17¼
tanks ... lb. .13¼- —
hydrogenated, dms ... lb. .14¼- .16¼
Tannic, NF fluffy bbls., 1,000-lb. lots lb 2.05 —
smaller lots ... lb 2.06 2.10
powd., bbls., 1,000-lb. lots lb 1.95 —
smaller lots ... lb 1.96 2.01
tech. dms ... lb. 1.05 —
Tartaric, USP, dom., 230 or 250-lb. dms., c.l lb. .49 - —
10,000-lb. lots, 1 shipt. lb. .49½- —
smaller lots ... lb. .50 - —
100-lb. dms ... lb. .51 - —
imported ... lb. .41½- .42
Thioglycolic, refd., cbys., 100% basis lb 1.35 1.55

Acid, thiosalicylic, purif., dms., 1,000-lb. lots, works ... lb. 4.00 - —
Tobias, bbls., frt. alld ... lb. .81 - —
p-Toluenesulfonic, dms., c.l., t.l., works lb. .17 - —
l.c.l., works ... lb. .18 - —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l lb. .90 - —
125 lbs. to t.l ... lb. 1.00 - —
o-Toluidine-m-Sulfonic, frt. alld. lb. .70 - —
p-Toluidine-m-sulfonic, bbls., works lb 92 1.04
Trichloroacetic, bots. ... lb. 2.00 - 2.50
Trichlorophenoxyacetic (see 2,4,5-T).
Tungstic, tech., dms., 1,000-lb. lots, works lb. 3.00 - —
smaller lots, works ... lb. 3.15 - 3.50
Undecylenic, dms ... lb 1.40 - —
Aconite root, bls ... lb. .50 - .55
Acrolein, tech., dms., c.l., works lb 47 - —
l.c.l., works ... lb. .47½- —
tanks, works ... lb. .46 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .31 - —
l.c.l., l.t.l., frt. equald ... lb. .32 - —
tanks, frt. equald ... lb. .28 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP Kobe No. 1, strip, bls. lb. 2.25 - —
powdered, 30 mesh, fib. dms lb. 2.75 - —
dl-Alanine dms, works lb 8.50 -11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms ... lb. .65 - 1.00
Egg, edible, cryst., powd., bbls. lb. 1.79 - 1.81
flake ... lb. 1.75 - 1.77
tech., cryst., bbls ... lb. 1.08 - 1.10

Alcohol, allyl, dms., c.l. dlvd ... lb. .32 - —
l.c.l., dlvd ... lb. .33 - —
tanks, dlvd ... lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132°C., dms., l.c.l., dlvd lb. .43 - —
ACS grade, dms., l.c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld ... lb. .18½- —
l.c.l., frt. alld ... lb. .19½- —
tanks, frt. alld ... lb. .16 - —
primary, dms., c.l., frt. alld. lb. .19¾- —
l.c.l., frt. alld ... lb. .20¾- —
tanks, frt. alld ... lb. .17¾- —
sec-synthetic, dms., c.l., works, frt. alld ... lb. .19 - —
l.c.l., works ... lb. .20 - —
tanks, works ... lb. .17 - —
tert-synthetic, dms., c.l., frt. alld. E ... lb. .18½- —
l.c.l., frt. alld E ... lb. .19½- —
tanks, frt. alld E ... lb. .16 - —
1-pentanol (syn normal), dms., c.l., works lb. .41½- —
l.c.l., works ... lb. .42½- —
tanks, works ... lb. .39½- —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works ... lb. .70 - —
tanks, works ... lb. .60 - —
Benzyl, NF, dms ... lb. .64 .79
tech., dms., dlvd ... lb. .47½- .49
n-Butyl, ferment, dms., c.l., frt. alld ... lb. .16½- —
l.c.l., frt. alld ... lb. .17½- —
tanks, frt. alld ... lb. .14 - —
synthetic, dms., c.l., dlvd ... lb. .16½- —
l.c.l., dlvd ... lb. .17½- —
tanks, dlvd ... lb. .14 - —
sec-synthetic, dms., c.l., dlvd. lb. .14½- —
l.c.l., dlvd ... lb. .15½- —



The Most-Wanted Killers in the Country!

S. B. PENICK & COMPANY
MAKERS OF MEDICINAL PRODUCTS

S. B. PENICK & COMPANY 50 CHURCH ST., NEW YORK 8 735 W. DIVISION ST., CHICAGO 10

Alcohol, n-butyl, sec-synthetic, tanks, dlvd lb. .12 - —
tert-synthetic dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld. lb. .15 - —
tanks, frt. alld. lb. .12 - —
Caprvl, 95%, dms., c.l., works lb. .21½- —
l.c.l., works lb. .22½- .23½
tanks, works lb .19½- —
Cetyl, extra, fib. cns., 500-lb. lots or more lb. .65 - .72
NF, fib. cns., 140-lb. lots or more lb. .48 - —
Cinnamic, bots lb. 2.15 - 2.75
Decyl mixed isomers, dms., c.l., dlvd. lb. .23½- —
l.c.l. dlvd lb. .24½- —
tanks, dlvd lb. .21 —
perfume grade bots lb. 1.75 2.00
normal (see 1-Decanol).
Denat. CD-12, CD-13 CD-14, CD-17, dms., c.l., dlvd. E of Rockies gal. .64½- .66
l.c.l., same basis gal. .69½- .77
tanks, dlvd., same basis, gal. .48½ .50
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.
Proprietary solvent, dms., c.l., dlvd. E of Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.
SD1, dms., c.l., dlvd. E. of Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .64 - —
l.c.l., same basis gal. .69 - .73
tanks, same basis gal. .48 - —

Alcohol, denat., SD3A, dms., c.l., dlvd. E. of Rockies gal. .635 - —
l.c.l., same basis gal. .683 - .745
tanks same basis gal. .475 - —
SD23A, dms. c.l. dlvd. E. of Rockies gal. .655 - —
l.c.l., same basis gal. .705 - .765
tanks, same basis gal. .495 - —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .66 - —
l.c.l., same basis gal. 71 - .77
tanks, same basis gal. .50 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .645 - —
l.c.l., same basis gal. .695 - .755
tanks, same basis gal. .485 - —
SD30, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .68 - .74
tanks, same basis gal. .47 - —
SD35A, dms. c.l. dlvd. E. of Rockies gal. .665 - —
l.c.l., same basis gal. .715 - .775
tanks, same basis gal. .505 - —
SD40, dms. c.l., dlvd. E of Rockies gal. .645 - —
l.c.l., same basis gal. .695 - .755
tanks, same basis gal. .485 - —
West coast dlvd prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.
Diacetone acetone-free, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .125 - —
tech., dms., c.l., dlvd lb. .145 - —
l.c.l., dlvd lb. 1.55 - —
tanks, dlvd lb. .12 - —

Alcohol, ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.58 - —
l.c.l., same basis gal.20.63 -20.69
tanks, same basis gal.20.42 —
tax free, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l. same basis gal. 68 - .74
tanks, same basis gal. .47 —
absolute, 200 pf. tax paid, dms., dlvd. E of Rockies gal.21.68 —
l.c.l., same basis gal.21.73 -21.79
tanks, same basis gal.21.52 —
2-Ethylbutyl, dms. c.l. works lb. .30 —
l.c.l., works lb. .30¾- —
tanks, works lb. .28 —
2-Ethylhexyl, dms., c.l. dlvd. E. lb. .24¼- —
l.c.l., same basis lb. .25¼- —
tanks, same basis lb. .21¾- —
Furfuryl cns. works lb. .29 —
dms., c.l., Memphis, Tenn. lb. .20 - —
Newark N J lb. 21½- —
l.c.l., Memphis Tenn lb. .21 - —
Newark N J lb. .22½- —
tanks, Memphis Tenn lb 184 - —
Hydroabietyl, tech. solid Zone 1, dms. c.l. dlvd lb. .27 - —
l.c.l. dlvd lb. .27½- —
tanks, dlvd lb. .25 - —
Isoamyl, dms. c.l. works, frt. alld. E lb. .28 - —
l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —

Alcohol, isobutyl, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd lb. .16½- —
tanks, dlvd lb. .13 - —
Iso-octyl, dms., c.l., dlvd. E lb. 23½- —
l.c.l. dlvd E lb. 24½- —
tanks, dlvd E lb. 21 - —
Isopropyl, refd. 91%, dms., c.l., dlvd gal. 53 - —
l.c.l., dlvd gal. 60 - —
tanks, dlvd gal. 37 - —
95%, c.l. dlvd gal. 55 - —
l.c.l., dlvd gal. 62 - —
tanks, dlvd gal. 39 - —
99%, dms., c.l., dlvd gal. 57 - —
l.c.l. dlvd. gal. .64 - —
tanks, dlvd gal. 41 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Methyl isobutyl carbinol).
Octyl, perfumer's grade, bots lb. 1.60 3.25
tech (see Octanol, normal)
2-Phenylethyl, extra dms lb 1.14 1.43
standard, dms lb 1.10 1.60
n-Propyl, dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11 - —
Tetrahydrofurfuryl, dms., c.l. or t.l., f.o.b. Memphis, Tenn lb. .37 —
l.c.l. or t.l., f.o.b Memphis, Tenn lb. .38 -
f.o.b. Newark, N. J lb. .40 - —
tanks, dlvd E of Denver lb. .365 - —
dlvd. W of Denver lb. .375 —
Tridecyl mixed isomers, dms., dlvd lb. 26½- —
l.c.l., dlvd lb. 27½- —
tanks, dlvd lb 24 —
Wood (see Methanol).
Aldol, 95% dms. works lb .23 —
denaturing grade dms gal 2.15 —
Aldrin tech. fib dms. c.l., t.l., dlvd lb .80 - —
l.c.l., dlvd lb. .85 - —
Aletris root, bgs lb 1.75 1.85
Algin (see Sodium alginate).
Alizarine (see 1,2-dihydroxy anthraquinone).
Allethrin 90% dms. frt alld lb.28.80 - 28.90
soln. 20% dms. 200-2,000 lb lots, frt alld lb 6.50 6.55
2½% dms. frt alld lb 95 1.00
Allspice (see Pimento)
Allyl bromide, cbys., works lb 1.45 1.50
Chloride dms. c.l., dlvd lb 17 —
l.c.l. dlvd lb 18 —
tanks dlvd lb 15 —
Aloe, Cape, cs lb. .30 - —
powd., cs lb. .65 - —
Curacao kgs lb. 60 - —
Aloin, USP, bbls., dms., kgs lb. 3.35 - 3.75
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum ammonium gran. bgs., works 100 lbs 4.30 —
lump dms. works 100 lbs 5.05 —
powd. dms works 100 lbs 5.20 —
USP, burnt, dms. lb. .20 - .21
nydrous dms lb 07¾ 08
Potassium, gran., bgs., works, 100 lbs 4.55 —
lump dms. works 100 lbs 5.30 —
powd. dms. works 100 lbs 5.45 —
USP burnt dms lb 20 21
hydrous dms lb 07¾ 08
Potash-chrome dms lb 17 —
Alumina calcined bgs. c.l. works lb. .0455- —
l.c.l., works lb. .048 0755
Aluminum acetate, basic soln., 24%, bbls. f.c.l. works lb .14 —
Chloride, com'l, anhyd., dms., c.l., works, frt. equald lb. .16 - —
l.c.l., works, frt. equald lb. .16½- —
cryst., dms., c.l., works 100 lbs. 16.00 - —
l.c.l., works 100 lbs. 17.50 - —
soln. 32°, cbys. c.l. works lb. .0445- —
l.c.l., works lb. .0520- .1230
tanks, works 100 lbs. 3.45 - —
NF, gran., dms., works lb. .29 - .30
Fluoride, tech., anhyd., bgs., c.l., works lb. .16¾- —
l.c.l., works lb. .17¾- .19¾
Aluminum fluoride in fib. dms. 0.35c. per lb. higher.
Formate, basic soln., dms., c.l., c.l. works lb. .12½- —
works lb. .12 —
Hydrate, heavy, bgs., c.l., frt. frt. equald lb. .032 - —
20,000-40,000 lb. lots, same basis lb. .0345- —
2,000-20,000 lb lots, same basis lb. .0445- —
bulk, same basis lb. .0295- —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
contract, works lb. .21 —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb .18 - —
dried, USP XIV, fib. dms., works lb 82½- —
contract, works lb 79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2710- —
pigs 10,000-lb. lots, frt. alld. lb. .2500- —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .68 - —
standard grade, dms lb. 48 - —
Powder, lining, extra fine, dms. lb. 1.09 - —
standard grade, dms lb. .78½- —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Resinate, precip., 2.1% Al, dms., 100 lbs. 7.26 - —
Stearate, dibasic, ctns., c.l lb. .37 - —
l.c.l. lb. .39 .42
monobasic, ctns., c.l. lb. .37 —
l.c.l. lb. .39 .42
tribasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .39 .42
Sulfate, coml., bulk, c.l., works, 100 lbs 1.85 - —
grd., bgs., c.l., works ton 37.00 - —
lump bgs., c.l., works ton 40.00 - —
Iron-free, bgs., c.l. works, frt. equald 100 lbs 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.93 - 4.58
Prices $1 per ton higher in the south
USP, gran., dms., works lb. .29 - .30
powd., dms., works lb. .36 .37
Trihydrate, heavy (see Aluminum hydrate, heavy).

Public health, better crops, water supply and game fishing have one thing in common. All benefit by the growing list of lethal weapons against insects, rodents and trash-fish.

Whichever you have to contend with—insects, rodents or fish—you can obtain from Penick the pesticides to dispatch them effectively. We have the most-wanted killers in the country!

Penick makes or markets an unusually comprehensive range of insecticidal materials. We have developed many widely-used basic formulations. A number of them owe their effectiveness to Sulfoxide®, Penick's outstanding synergist that increases the potency of active ingredients.

In the field of rodent control, Penick is a major producer of Warfarin®, anti-coagulant rat-killer developed by the Wisconsin Alumni Research Foundation.

To solve problems caused by trash-fish in lakes, streams and reservoirs, Penick developed Pro-Noxfish®, a fast-action combination of rotenone and Sulfoxide. Its outstanding success has made us the world's leading manufacturer of fish toxicants.

Because of our broad interests we are especially well prepared to distribute pesticides in bulk for other chemical firms who wish to capitalize on our experience in this very specialized field. Your inquiry is invited.

PENICK

Agricultural Chemical and Insecticide Division

Ambergris, gray, bots ..... oz 8.00 - 10.00
p-Aminoacetanilide, frt, alld ... lb 1.57 - —
Aminoazotoluene base, bbls., 100% basis lb 1.03 - 1.18
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
l.c.l., dlvd ..... lb. .485 - —
tanks, dlvd ..... lb. 45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. 44 - —
l.c.l., frt. alld ..... lb. 45 - —
tanks, frt. alld ..... lb. 42 - —
m-Aminophenol, dist., dms., ton lots, lb 2.05 - —
smaller lots lb 2.50 - —
p-Aminophenol, dms., frt. alld lb 1.15 - —
Aminophylline, USP, 100-lb dms lb 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton.75.00 - —
refrigeration, tanks works, frt equald ton.82.50 - —
aqueous, tanks, works, anhyd basis ton.83.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
l.c.l., same basis ... 100 lbs. 9.25 - —
white crn. (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .38 - —
Benzoate USP dms., kgs. 4,000-lb. lots frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, gran., dms., c.l., works, ton 319.50 - —
ton lots, ex whse ton.395.00 - —
smaller lots, ex whse ton.400.00 - —

Ammonium bicarbonate, dom., dms., c.l., works ..100 lbs. 7.00 - —
l.c.l., works ..... 100 lbs. 9.00 - —
Bichromate, dms., works ... lb 42 - .43
Bifluoride, dms., dlvd ..... lb. .2145- .2245
Bromide, NF gran., bbls ..... lb. .43 - —
Powdered ammonium bromide 10c per lb higher
Carbonate, USP, lump, dms. ... lb. .16 - —
Chloride, tech., fine gran., bgs., c.l., works 100 lbs. 5.75 - —
l.c.l., works ..... 100 lbs. 7.75 - 8.20
USP, gran., bbls., dms ... lb. .17¼- —
Citrate, dibasic, bbls ..... lb. .77 - —
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia accueous).
Hypophosphite, NF, dms. .... lb. 3.07 - —
Iodide, NF, dms., bots ... lb 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate dom., fert. grade, 33.5% N., bgs., western works, frt. equald, base price ton.64.00 - —
August discount ton. 4.00 - 5.00
imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $8 per ton, base price ton.64.00 - —
August discount ton. 5.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton.79.69 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton.51.00 - —
Oxalate, fine gran., dms ... lb. .26½- .31

Ammonium pentaborate, gran., bgs., c.l., works ..ton.187.50 - —
ton lots, ex whse ..... ton.271.50 - —
smaller lots, ex whse ... ton.276.50 - —
Ammonium pentaborate powder $10 per ton higher.
Persulfate, kgs ..... lb. .38 - .47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .09¼- —
l.c.l., same basis ..... lb. .10 - —
dibasic, NF, V bbls., dms. lb. .46 - —
tech., bgs., c.l., works, frt. equald lb. .09¼- —
l.c.l., same basis ..... lb. .10 - —
Salicylate, NF, dms., kgs. ..... lb. 1.62 - 1.64
Silicofluoride, dms., works ... lb. .11¾- .13¼
Sulfamate, bgs., c.l., t.l., works lb. .18 - —
l.c.l., works ..... lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens, base price .. ton.32.00 - —
syn., bulk, c.l., f.o.b. works ton.32.00 -42.00
purif., dms., works ... lb. .09 - .09½
Sulfide liq., 40-44%, tanks, frt. equald., 100% basis ... ton.160.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works ..... lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.65
highly purif., cbys. 100% basis. lb. 1.70 - 1.96
Thiosulfate cryst., photo grade, fib. dms., frt. alld ... lb. .65 - —
d-Amphetamine hydrochloride dibasic, bots lb.28.00 - —
dl, dms ..... lb. 6.00 - —
d-monobasic, bots ..... lb.28.00 - —
d-Phosphate, dibasic, bots ..... lb.28.00 - —
dl, dms ..... lb. 6.00 - —

Ammonium d-sulfate, dms ..... lb.28.00 - —
dl, dms ..... lb 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld, E. of Rockies lb. .18 - —
l.c.l., same basis ..... lb. .19 - —
tanks, same basis ..... lb. 15¼- —
ex pentane reg. dms., c.l., dlvd. lb. .18½- —
l.c.l., dlvd ..... lb. .19½- —
tanks, dlvd ..... lb. .16 - —
tech., dms., c.l., dlvd ..... lb. .16½- —
l.c.l., dlvd ..... lb. .17½- —
tanks, dlvd ..... lb. .14 - —
syn., oxo process, dms., c.l., dlvd .. lb. .19¾- —
l.c.l., dlvd ..... lb. .20¾- —
tanks, dlvd ..... lb. .18 - —
Alcohol (see Alcohol, amyl).
n-Butyrate, dms ..... lb. 1.00 - 1.25
Cinnamic, aldehyde, dms ..... lb. 1.70 - 2.20
Nitrite, USP, bots ..... lb 1.75 - 1.83
Salicylate, ens., dms ..... lb. .82 - 1.10
o-tert-Amyl phenol dms., c.l., works. lb. .49½ - —
l.c.l., works ..... lb. .50½- —
tanks, works ..... lb. .47 - —
p-tert-Amyl phenol dms, c.l. works lb. .26¾ - —
l.c.l. works ..... lb. .27¾ - —
tanks, works ..... lb .25¾ - —
Anethole, NF, cns., dms ..... lb 1.60 - 1.80
tech. dms ..... lb 1.10 - 1.15
Angelica root, dom., bls ..... lb. .80 - .90
Aniline oil, dms., c.l., frt. alld ... lb. .22 - —
l.c.l., frt. alld ..... lb. .23 - —
tanks, frt. alld ..... lb. .21 - —
tankwagons, min. 2,000 gals. lb. .21½- —
Salt, dms. c.l. truckloads, 20,000 lbs., min. frt. alld ... lb. .33 - —
l.c.l., same basis ..... lb. .35 - —
Anise seed, Mexican, bgs. ..... lb. No price.
Spanish, bgs. ..... lb. .26 - —
Syrian, bgs. ..... lb. .26 - —
Anisic aldehyde, bots., dms ..... lb. 1.95 - 2.70
o-Anisidine, dms., c.l., frt. alld ... lb. .80 - —
l.c.l., same basis ..... lb. .82 - —
tanks, same basis ..... lb. .78 - —
p-Anisidine, dms., works ..... lb. .97 - —
Annatto seed, whole, bgs ..... lb. .15 - .17
Anthracene 90-95% bbls., ton-lots, works lb. .83 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5% bbls, c.l., frt. alld lb. .83 - —
l.c.l., same basis lb. .86 - —
electrical grade, bbls., l.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines ..... lb. .33 - —
cs., c.l. mines ..... lb. .33½- —
Oxide, bgs., c.l., frt. alld ..... lb. .27 - —
l.c.l., frt. alld ..... lb. .28½- —
Sulfide, approx 65%, bgs., dlvd lb. .23 - .26
Trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
l.c.l., works lb .43 - —
Antimony-potassium tartrate, tech., powd., dms. lb. .69½- .74½
USP, powd., dms ..... lb. .74½- .75½
Antipyrine, NF, 200-lb bbls lb. 3.50 - —
Apomorphine hydrochloride, USP 5 oz. lots, bots oz.35.60 - —
Areca nuts, powd., bbls ..... lb. .13 - —
Arecoline hydrobromide, NF, bots., tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms. 1 kilo lots kilo.74.80 - —
Arnica flowers (true montana), bls. lb. 2.25 - —
Arsenic metal, lump, bbls, ex whse. lb. .54 - —
Trioxide, USP, dms ..... lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l., dlvd ..... lb. .06½- .07½
Asafetida, cn ..... lb. .40 - —
powd., bbls., dms ..... lb. .85 - —
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons) mines ton.1,400.00- —
No. 2, c.l. (20 tons), mines.ton.750.00 - —
Run-of-mine, c.l. (20 tons) mines ton.611.60 - —
3K, c.l. (20 tons), mines ton.480.00 - —
3R, c.l. (20 tons), mines ton.408.10 - —
3T, c.l. (20 tons), mines ton.382.80 - —
3Z, c.l. (20 tons) mines ton.353.10 - —
4K, c.l. (20 tons), mines ton.190.30 - —
4M, c.l. (20 tons), mines ton.190.30 - —
4T, c.l., (20 tons), mines ton.171.60 - —
4Z, c.l. (20 tons), mines ton.171.60 - —
5D, c.l. (20 tons), mines ton.135.00 - —
5K, c.l. (20 tons), mines ton.135.00 - —
5M, c.l. (20 tons), mines ton.122.35 - —
5R, c.l. (20 tons), mines ton.115.50 - —
6D, c.l. (30 tons), mines ton.82.00 - —
7D, c.l. (30 tons), mines ton.72.00 - —
7F, c.l. (30 tons), mines ton.68.25 - —
7H, c.l. (30 tons) mines ton.58.00 - —
7K, c.l. (30 tons), mines ton.48.30 - —
7M, c.l., (30 tons), mines ton.42.00 - —
7R, c.l. (30 tons), mines ton.41.00 - —
7RF c.l. (30 tons), mines ton.42.00 - —
7T, c.l., (30 tons), mines ton.39.00 - —
7TF, c.l. (30 tons), mines ton.42.00 - —
8S, c.l. (30 tons), mines ton28.35 - —
Asbestos c.l. prices are in U. S. funds, l.c.l. lots $4 per ton higher.
Asphalt, gilsonite, black jet, bgs., c.l., mines ton.37.00 - —
select, 350° F. fusing pt., bgs., c.l., mines ton.38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —
Petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy. gal. .09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin, (see Acid acetylsalicylic).
Atropine, USP, bots ..... oz. 3.90 - 4.50
Sulfate, USP, bots ..... oz. 2.25 - 2.65

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units. 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs. lb. 1.35 - 1.45
Barberry root bark, bgs ..... lb. .28 - .31
Barbital, USP, 100-lb. dms ..... lb. 4.50 - —
Sodium, USP, dms ..... lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ..ton.100.00 - —
smaller lots, works ... ton.110.00 - —
Chlorate, kgs., works ..... lb. .32 - .36
l.c.l., l.t.l., frt. equald ton.285.00 - —
Chloride anhyd., bgs., c.l., works. ton.165.00 - —
l.c.l., works ..... ton.175.00 - —
NF, cryst., dms ..... lb. .20 - —
tech., cryst., bgs., c.l., works. 100 lbs. 6.50 - —
l.c.l., works ..... 100 lbs. 7.00 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).

versatile

CSC emulsifier

and chemical

intermediate

•

$CH_3C(CH_3)NH_2CH_2OH$

AMP

2-AMINO-2-METHYL-1-PROPANOL

use AMP as an emulsifier

AMP oleate is an economical emulsifier in water-wax emulsions. That's because AMP oleate is effective in lower concentrations than are required for comparable performance with other amine soaps. Emulsions made with relatively low concentrations of AMP oleate are stable and unchanged after repeated freeze-thaw cycles and heat stability tests. In properly formulated floor wax emulsions, AMP oleate imparts high gloss and excellent leveling characteristics.

The higher fatty acid soaps of AMP are powerful emulsifying agents in cleaners, polishes, dressings, self-polishing floor waxes, and emulsion-type paints. Evaporation loss and objectionable fumes are minimized during emulsion manufacture, due to AMP's relatively high boiling point. Films deposited from AMP-made emulsions have excellent water resistance and durability.

use AMP as a chemical intermediate

AMP forms substituted amides with esters, anhydrides, and acyl halides. AMP also reacts with alkyl halides, aldehydes, ketones, carbon disulfide, and many other compounds. These reactions suggest the use of AMP in the synthesis of surface-active agents, detergents, and vulcanization accelerators for rubber.

PHYSICAL PROPERTIES

Molecular Weight	89.14
Boiling Point, at 760mm	165°C
Melting Point	30-31°C
Specific Gravity at 20/20°C	0.934
pH of 0.1M Aqueous Solution at 20°C	11.3
Solubility	Miscible with water; aromatic hydrocarbons, alcohols, esters. Insoluble in aliphatic hydrocarbons.

SPECIFICATIONS

Neutral Equiv.	88.5-91.0
Color, APHA, max.	20
Water, by wt., max.	0.8%
Distill. Range	156°C-177°C
Below 161°C, max.	10%
Above 168°C, max.	5%
Odor	Characteristic
Non-volatile matter by weight, max.	0.005%

OTHER AMINOHYDROXY COMPOUNDS

AMPD (2-Amino-2-methyl-1, 3-propanediol) $CH_2OHC(CH_3)NH_2CH_2OH$

AEPD (2-Amino-2-ethyl-1, 3-propanediol) $CH_2OHC(C_2H_5)(NH_2)CH_2OH$

TRIS AMINO (Tris [hydroxymethyl] aminomethane) $(CH_2OH)_3CNH_2$

AB (2-Amino-1-butanol) $CH_3CH_2CHNH_2CH_2OH$

AMP is another important chemical derived from CSC's Nitroparaffins. For samples and additonal information write to:

COMMERCIAL SOLVENTS CORPORATION

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IN CANADA: Reliance Chemicals, Ltd., Montreal. IN MEXICO: Comsolmex, S.A., Mexico 11, D. F.

CSC INDUSTRIAL CHEMICALS

Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ton 208.00 - —
l.c.l., t.l.l., trt. equald ton 218.00 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., t.l. dlvd lb .16 - —
l.c.l. t.l.l. dlvd lb .17 - —
Oxide, grd., dms., c.l., t.l., frt. equald ton 275.00 - —
Peroxide dms. frt equald lb .20 - —
Stearate ctns., c.l., frt alld lb .39 - —
l.c.l., same basis lb .40 - .44
Sulfate, tech. (see Barytes and blanc fixe).
X-ray dms lb .15 - .15½
Sulfide, dms., c.l., works ton 85.00 - —
l.c.l. works ton 95.00 - —
Barytes, Southern, off-color, bgs., mines ton 25.00 - —
95-75% bgs. mines ton 25.00 - —
water-grd., paper bgs., c.l., St Louis ton 49.00 - —
ex-whse, N. Y. ton 70.85 - —
Bauxite, bulk mines ton 6.75 - 10.00
Bay leaves (see Laurel leaves)
Belladonna leaf bls lb .35 - .37
root, bls lb .45 - .50
Bentonite dom. 200 mesh, bgs. c.l. mines ton 14.00 - —
imp. Italian, white high gel, bgs 5-ton lots, ex whse ton 84.00 - —
1 ton lots, ex whse ton 87.00 - —
low gel, bgs., 5-ton lots, ex whse ton 82.35 - —
1 ton lots ex whse ton 85.35 - —
Benzal chloride, cbys., works lb .44 - —
Benzaldehyde NF dms lb .74 - 1.05
tech., cbys., dms., t.l. lb .43 - —
smaller lots lb .44 - —
Benzene (See Benzol)
Hexachloride, 25% and 99% gamma isomer (see Lindane)
tech., high gamma, dms., c.l., dlvd., gamma unit-lb. .0075- .008
l.c.l., works, gamma unit-lb. .009 - .0095
low gamma, dms., c.l., dlvd. gamma unit-lb. .0075- —
l.c.l., works, gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 - —
l.c.l., same basis lb. 1.21 - —
Sulfate tech frt alld., 100% basis lb. 1.21 - —
Benzocaine dms lb. 3.48 - 3.50
Benzol, coaltar, pure or nitration tanks works:—
Bethlehem, Pa gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown Pa. gal. .36 - —
Lackawanna N Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Middletown Ohio gal. .36 - —
Minnequa, Colo gal. .36 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point Md. gal. .36 - —
Syracuse N Y gal. .36 - —
Terre Haute Ind gal. .36 - —
Youngstown Ohio gal. .36 - —
Benzophenone, dms lb. 1.40 - 1.70
Benzotriazole tech. dms., 1,000-lb. lots, works lb. 2.25 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt. equald lb. .18 - —
smaller lots, frt. equald lb. .20 - —
Benzoyl chloride, cbys. dms., c.l., works frt equald lb. .22 - —
l.c.l. same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif. fib dms., 50 to 1,000-lb lots works lb. .98 - 1.08
Benzyl acetate f.f.c., ens., dms lb. .68 - 1.00
Alcohol (see Alcohol, benzyl)
Benzoate, USP, f.f.c. ens., dms lb. .72 - 1.10
Chloride, tech., 13-gal. cbys., dms., c.l., works, frt. equald lb. .23 - —
l.c.l. same basis lb. .24 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
A 2½c differential is quoted on benzyl chloride in 5-gal cbys In steel dms prices were ½c lower
Cinnamate, ens lb. 3.60 - 3.90
Formate, ens lb. 1.80 - 2.10
Isoeugenol, ens lb. 9.85 - —
Propionate bots lb. 1.35 - 1.65
Salicylate bots, lb. 1.60 - 1.85
Benzylidine acetone, bots lb. 1.75 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, ens lb. 35.00 - 36.25
Hydrochloride, bots lb. 35.00 - 36.25
Betaine, anhyd., 10,000-lb. lots, frt. alld lb. 3.00 - —
Hydrochloride, 5,000-lb. lots, frt. alld lb. 1.60 - —
Monohydrate, 10,000-lb. lots, frt. alld lb. 2.60 - —
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine)
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride technical)
Biotin cryst., bots gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, fars lb 5.11 - —
Hydroxide, dms lb 4.65 - —
Metal, bxs., ton lots lb 2.25 - —
Nitrate, cryst., dms. lb 2.10 - 2.17
Oxide, anhyd., dms lb 4.47 - 5.05
Oxychloride, dms lb 4.37 - 4.42
Phenolsulfonate, fib dms lb 5.22 - —
Subcarbonate, USP, dms. lb. 3.20 - —
Subgallate, NF, fib. dms. lb. 3.15 - —
Subiodide, fib. dms lb 5.37 - —
Subnitrate, NF, dms lb 2.65 - —
Subsalicylate, USP dms lb 3.50 - —
Bismuth-ammonium citrate, USP, powd jars lb 4.22 - —
Bisphenol-A, c.l., t.l., frt. alld lb. 29¾- —
l.c.l., same basis lb. 30¾- —
Black, acetylene, imp., bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse lb. .22½- .26
Ash (see Barium sulfide).
Bone, dms., l.c.l., frt. alld lb. .17 - .23¼
Pacific coast bone black prices 2c. per lb. higher.
Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse. lb. .78 - —
medium color, uncompressed, bgs., c.l., works. lb. .12 - —
l.c.l., dlvd. or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .074 - —
l.c.l., works lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works lb. .0700- —
l.c.l., dlvd. or whse lb. .122 - .125

Black, carbon, furnace, high modulus, bgs., c.l., works lb. .0550- —
ctns., l.c.l. whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb .043 - —
bgs., ctns., l.c.l. whse lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure bgs., c.l., works. lb. .13¼ - —
l.c.l. works lb. .13½- —
Lamp, bgs., c.l., works lb .16 - .45
Mineral, bgs., works lb .0160- .067
Blackberry root bark bls lb .45 - —
Black haw root bark, bls lb .63 - .65
tree bark bls lb .40 - .45
Blanc fixe dry byproduct, bgs., c.l., works ton 190.00 - —
l.c.l. works ton 200.00 - —
direct process, bgs., c.l., works ton 110.00 - —
l.c.l. works ton 120.00 - —
N. Y. whse ton 155.00 - —
Blood, dried, 16-16½% ammonia, unit-ton. 5.50 - —
high grade, unground, 16-17% ammonia bgs., Chicago unit-ton. 5.75 - —
soluble, bgs., c.l. lb. .13 - .14
t.l. lb. 15 - 17
l.t.l. lb. .15½- .35½
Bloodroot bls lb 48 - 50
Blue alkali dry, 250-lb bbls, dlvd, N of Tenn and N C. E of Miss R including St. Paul, Minneapolis, Davenport, Rock Island, St Louis lb 2.10 - —
toner 125-lb. bbls., litho flushed, same basis lb. 1.20 - —
Blue, Chinese, bbls., c.l., same basis lb. .50 - —
l.c.l. ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Cobalt, genuine bbls., same basis. lb 4.90 - —
Imitation (see Blue, ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese Milori, Potash Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls, same basis lb 2.73 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - 4.15
Milori, bbls., c.l., same basis lb. .50 - .55
l.c.l., ton lots, same basis lb. .51 - .56
smaller lots, same basis lb. .52 - .57
Peacock, fugitive, 100% color strength, bbls, same basis. lb. .83 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated bbls, same basis lb 3.00 - —
water dispersable bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, soluble, bbls., c.l., same basis lb. .50 - —
l.c.l. ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Soda, CP, bronze, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis. lb. .51 - —
smaller lots, same basis. lb. .52 - —
Blue, ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls, same basis. lb. .19 - —
regular types, dry, bbls., same basis lb 22½ .35
Victoria toner, molybdated, PMA, bbls lb 4.10 - —
tungstated PTMA, bbls lb 5.35 - —
Blue dry colors, dlvd prices ½c higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c higher Pac Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago
Vitriol (see Copper sulfate).
Bluestone (see Copper sulfate)
Bonemeal, steamed, works, E ton 60.00 - —
Los Angeles ton 82.00 - —
Bone phosphate defluorinated (see Di of lime (see Calcium phosphate, tribasic)
precipitated (see Calcium phosphate tribasic, NF precip.)
Borax, tech., anhyd., 99½%, bgs., c.l., works ton 80.50 - —
ton lots ex whse N. Y. or Chicago ton 130.25 - —
bulk, c.l., works ton 71.50 - —
cryst., 99½%, bgs., c.l., works, ton 69.25 - —
ton lots, ex-whse, N. Y. or Chi ton 119.00 - —
smaller lots, same basis. ton 124.00 - —

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for chemical processing

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A NEW, MODERN PLANT with new exacting controls and increased capacity is now producing Hydrobromic Acid at Michigan Chemical Corporation. Greater demand for this product as a brominating agent and for the manufacture of other bromides made this expansion necessary.

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BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Borax, tech., gran., decahydrate, 99½%, bgs., c.l., works ton 43.25 - —
ton lots, ex whse., N. Y., Chi ton 93.00 - —
smaller lots, same basis, ton 98.00 - —
bulk, c.l., works ton 36.75 - —
pentahydrate, 99½%, bgs., c.l., works ton 57.75 - —
ton lots, ex whse., N.Y., Chi ton 107.50 - —
smaller lots, same basis, ton 112.50 - —
bulk, c.l., works ton 51.50 - —
powd., 99½%, bgs., c.l., works, ton 48.25 - —
ton lots, ex-whse., N. Y. or Chi ton 98.00 - —
smaller lots, same basis, ton 103.00 - —

Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher USP borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. pt. lb. .18 - .24
l.c.l., same basis lb. .19 - .26
Borneol, cns lb. 2.50 - 4.5
Boron trifluoride gas, cyls., truck-load, works lb. .62 - —
l.t.l. works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).

Bromine, purif, cs., c.l., t.l., dlvd. E of Rockies lb. .32 - —
l.c.l., same basis lb. .34 - .39
ret. dms., c.l., t.l. dlvd E of Rockies lb. .31 - —
l.c.l., same basis lb. .31 - .33
tanks, same basis lb. .22½ - —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
l.c.l., same basis lb. .50 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 2.60
cbys. lb. 1.52 —
Bromstyrol, bots lb. 5.40 5.70
Bronze powder aluminum (see Al).
Brown iron oxide pure bgs., c.l., works lb. .14¼ - —
l.c.l., works lb. .14½ - —
Oxide, metallic, bgs., works lb. .04 - —
Sienna, burnt, paper bgs., c.l., works lb. .06¼ - .17¼
l.c.l., works lb. .06½ .17½
raw, paper bgs., c.l., works lb. .06¼ - .16¼
l.c.l., works lb. .06½ - .16½
Umber, burnt, American, c.l., works, lb. .07 - .07¾
l.c.l., works lb. .07¼ - .08
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .07¾ —
raw, American, bgs., works lb. .07½ - .08¼
Turkey-type, bgs., works lb. .06¾ - .07
Vandyke, bbls., works lb. .09½ - .12

Brucine, cns., 100-oz. lots oz. .20 - .25
Sulfate, NF cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls lb. 1.30 - —
Butadiene, refd., cyls., c.l. refy lb. .21 - —
l.c.l. refy. lb. .22 - —
tanks, refy lb. .15 - —
Butane, indust., tanks, group 3 gal. .04½ - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .14 - —
syn., dms., c.l., dlvd. E. lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .14 - —
sec-Butyl acetate, syn. dms., c.l., dlvd. E. lb. .13½ - —
l.c.l., same basis lb. .14¼ - —
tanks, same basis lb. .11¾ - —
Butyl alcohol (see Alcohol, n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works lb. .37½ - —
l.c.l., works lb. .38¼ - —
Ether, dms. c.l. works lb. .33 - —
l.c.l., works lb. .33¾ - —
tanks, works lb. .31 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .40 - —
Laurate, dms., works lb. .39 - —
Methacrylate dms. c.l. t.l. works. lb. .55 - —
l.c.l., works lb. .55½ - —
Oleate, refd. dms. l.c.l. works lb. .32 - —
Phenylacetate, dms. lb. 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate dms. c.l., frt. equald. l.c.l., same basis lb. .26½ - —
Butylamine (see mono- di- and tri-). lb. .25 - —

6-tert-Butyl-m-cresol, dms., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).
p-tert-Butylphenol, bgs., c.l., works. lb. .27½ - —
l.c.l. lb. .28½ - —
Butyraldehyde, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd lb. .23 - —
tanks, dlvd lb. 19½ —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide 25-lb fib. dms lb 6.75 7.00
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb lots or more lb. 3.00 - —
hydrous, dms., 100-lib lots or more lb 2.80 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, 100-lb lots or more lb 2.80 - —
Citrated, USP, dms., 100-lb lots or more lb 2.70 - —
Calamine, USP, dms lb .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram .60 - —
25 to 100 gram lots, works, gram .65 - —
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib. dms., 100 lbs or more, frt. adjusted. lb. 4.00 - —
Arsenate, dealers, bgs., c.l., frt. alld lb. .09 - .09½
Bromide, NF, 100 lbs or more lb. .92 - —
Carbide, standard generator size, dms. c.l. dlvd ton 134.40 - —
Carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton 10.50 - —
chalk whiting (325 mesh bgs., c.l., works ton 32.00 -34.00
l.c.l., same basis lb .10 - .10½
water-grd., ½ to 10 microns, bgs., c.l., works ton 30.00 - —
10 to 20 microns, bgs. c.l., works ton 17.00 -18.00
precip., dense bgs. c.l., works ton 32.50 - —
l.c.l., works ton 42.50 - —
medium, bgs., c.l. works ton 38.00 - —
l.c.l., works ton 48.00 - —
surface treated bgs., c.l., works ton 37.50 - —
l.c.l., works ton 47.50 - —
ultrafine, bgs., c.l., works, ton 110.00 -160.00
l.c.l., works ton 120.00 -175.00
Chloride, cryst., purif., dms lb. 27 —
flake 77-80%, paper bgs., c.l. works, frt. equald ton 29.00 —
liquor, 40%, tanks, frt. equald. ton 12.35 - —
pellets bgs., c.l., works ton 35.40 - —
powd., bgs., c.l., works ton 35.00 - —
solid, 73-75% dms., c.l., frt. equald ton 27.50 - —
l.c.l. works frt. equald. ton 34.00 -71.00
USP, gran., dms. lb. .32 —
Chromate, bgs., frt. equald lb. .29½ - .30
Cyanide, dms., c.l., dlvd. E. of Rockies lb. .20 - —
l.c.l., same basis lb. .24 - .55
Cyclamate, 100-lb. fib, dms. lb. 2.95 - —
Gluconate, AA, bbls., dms. lb. .74 - .76
USP, bbls., dms lb. 67 .69
Hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, 45-lb. cs., dlvd. E. of Rockies cs. 22.95 -25.10
100-lb. dms., same basis dm. 30.80 -34.50
Hypophosphite, dms., ton lots or less lb. .90 - .93
frt. equald lb. 27¼ - —
Iodide, jars lb. 4.52 - —
Lactate, NF, dms., 10,000-lb. lots or more works lb. .36 - .40
Mandelate, USP dms. works lb. 2.10 2.25
smaller lots, works lb. .41 - .48
Naphthenate liq., 4% Ca., dms.,
Nitrate, tertilizer grade, bgs., c.l., Los Angeles ton 46.00 - —
tech., 5-dm. lots, works lb. .13 - —
Pantothenate, dms. bots., frt. adjusted gram .045 - —
Para-aminosalicylate (see Calcium p-Aminosalicylate)
Phenolsulfonate, dms lb 70 - —
Phosphate, dibasic, USP bgs., c.l., frt. equald 100 lbs. 7.75 - —
l.c.l., frt. equald 100 lbs 8.50 - —
feed grade, 18½%P, bgs., c.l., t.l., frt. equald ton 79.55 -83.25
l.c.l., frt. equald ton 89.55 -93.25
21% P, bgs., c.l., t.l., frt. equald ton 94.50 - —
l.c.l., frt. equald ton 99.50 -104.50
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.90 - —
smaller lots, same basis, 100 lbs. 7.40 - —
tribasic, NF precip., bgs., c.l., works, frt. equald 100 lbs. 8.75 - —
l.c.l., frt. equald 100 lbs 9.00 - —
Phytate, bgs., works lb. .50 - —
Resinate, precip., dms, frt. alld., works lb. .30½ - —
Silicate, hydrated, bgs., c.l., works. lb. .06 - —
l.c.l., works lb. .06½ - —
paint grade (see Wollastonite).
Stearate, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. .42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .15 - —
l.c.l., same basis lb. .16½ - —
tanks, same basis lb. .12½ - —
Chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs. lb. 3.55 - —
nat., USP, powd., cs., 100-lb. lots, lb. .60 - .65
tablets, 1-oz., ½-oz. cs. lb. .85 - .90
syn., tech., 1 bbl. or more lb. .48 - —
USP, gran., powd., bbls., 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs. lb. 2.00 - 2.05
powd., bxs lb. 2.25 - 2.30
Russian, bgs lb. 4.00 - 4.05
powd., bxs lb. 4.35 - 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms lb. 4.50 - 5.25
from African pepper, dms. lb. 4.35 5.00
Caraway seed, Dutch, bgs. lb. .17 - —
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —

IN ADDITION TO
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BORON TRIFLUORIDE
HYDROFLUORIC ACID
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Ammonium Bifluoride
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Barium Fluoride
Bismuth Fluoride
Boron Trifluoride
Boron Trifluoride Complexes
Chromium Fluoride
Copper Fluoborate
Fluoboric Acid
Fluorine Cells
Fluorinating Agents
Frosting Mixtures
Hydrofluoric Acid Anhydrous
Hydrofluoric Acid Aqueous
Hydrofluosilicic Acid
Lead Fluoborate
Metallic Fluoborates
Potassium Bifluoride
Potassium Chromium Fluoride
Potassium Fluoborate
Potassium Fluoride
Potassium Titanium Fluoride
Silico Fluorides
Sodium Fluoborate
Tin Fluoborate
Zinc Fluoborate
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Harshaw's 40-page Book on Hydrofluoric Acid Anhydrous. It provides helpful data.

Carbon black (see Black, Carbon).			
Dioxide, indust., wholesale, bulk, dlvd, Metropolitan area	ton	73.00	-115.00
	ton	73.00	-115.00
cyls., same basis	lb.	.08	- .09
solid, same basis	lb.	.035	- .040
Disulfide, 55-gal. dms., c.l., works, frt. equald. to competitive points	lb.	.07	- —
l.c.l., same basis	lb.	.08½	- .09
5-gal. dms., 30 dms. to c.l., same basis	lb.	.13	- —
less than 30 dms	lb.	.16	- —
tanks, dlvd.	lb.	.0545	- —
Tetrachloride, CP, consumers, dms., l.c.l., frt. alld	lb.	.12¼	- .14½
tech., consumers, dms., c.l., frt. alld	lb.	.11¼	- —
l.c.l., frt. alld	lb.	.13½	- —
tanks, frt. alld	lb.	.10	- —
Carboxymethyl cellulose (see CMC).			
Carbromal, NF, dms., 100-lb. lots, works	lb	4.00	- 4.25
smaller lots, works	lb	4.10	- 4.75
Cardamom seed, bleached, "A"	lb	3.20	- —
"B"	lb.	3.10	- —
decorticated, Ceylon, cs	lb.	3.00	- —
Guatemalan, cs.	lb.	2.85	- —
green, Alleppey, bgs	lb.	2.15	- —
Ceylon, bgs	lb.	2.15	- —
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd	lb.	14.40	- —
smaller lots, dlvd	lb.	14.50	-15.20
Carotene, tech., 1,350,000 A units per gram, tins, 5-10 kilo lots, dlvd	gram.	.295	- —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works	million units.	.12	- —
microcrystalline in oil, 400,000 A units per gram dms. dlvd.	million units.	.21	- —
b-Carotene, pure crystalline, 1,600,000 A units to 1,670,000 per gram., cns	gram.	.35	- —
in vegetable oil, 400,000 A units per gram., cns.	gram.	.084	- —
Carvol, bots	lb.	4.50	8.00
Cascara sagrada bark, bulk	lb.	.33	- —
Casein dom acid precip., standard, bgs. 10,000-lb lots or more, shipt. point	lb.	.32	Nom.
premium, bgs., 10,000-lb. lots or more, shipt. point	lb.	.38	Nom.
imp., acid-precip., grd., Argentine, bgs., c.l., duty paid	lb.	.22	- .23
New Zealand, duty paid	lb.	.24	- .25
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J	lb.	.22	- —
ton lots, same basis	lb.	.23	- —
dm lots same basis	lb	.25	- —
Cassia, Batavia, "A," bls.	lb.	.22	- —
"B"	lb.	.21	- —
"C"	lb.	.20	- —
Cassia, Corinje "A"	lb.	.22	- —
"B"	lb.	.21	- —
"C"	lb.	.20	- —
Castor beans, bgs., f.o.b. Brazil	ton.	155.00	Nom.
Oil (see Oil, castor)			
Pomace, bgs., c.l., works	ton.	35.00	-40.00
Castoreum, nat., cns	lb.	5.25	-30.00
syn., cns	lb	9.00	- —
Catechol, CP, cryst., fib. dms., works	lb	2.17½	- —
resub., dms., works	lb	4.29½	- —
Catnip leaves, Southern, bls	lb.	.75	- —
celery seed, French, bgs	lb.	.41	- —
Indian, bgs.	lb.	.19	- —
Cellulose acetate, flake, powd., ctns., bgs. 100-lb lots or more, dlvd E	lb.	.35	- .46
Acetate-butyrate, powd., 17% butyryl content, bgs. dlvd E.	lb.	.545	- .555
27% butyryl content, bgs., dlvd. E	lb.	.595	- .605
38% butyryl content, bgs., dlvd. E	lb.	.545	- .555
50% butyryl content, bgs., dlvd E	lb.	.585	- .595
half-second, bgs., dlvd. E.	lb.	.545	- .555
Scrap (see Pyroxylin scrap).			
Cerium chloride, dms. dlvd.	lb.	.35	- —
Hydrate 74% CeO_2, fib. dms., 100-lb lots or more	lb.	1.44	- —
77% CeO_2 fib dms., 100-lb. lots or more	lb	1.74	- —
Oxalate, NF, bgs., works	lb.	1.00	- —
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd	lb	1.85	1.98
smaller lots, dlvd	lb	2.03	2.23
Chalk (see Calcium carbonate).			
Chamomile flowers Hungarian style, cs	lb.	.78	- —
Roman, cs.	lb.	2.00	- —
Charcoal, activated NF, fib. dms., c.l., works	lb.	.25	- .32
5-ton lots, works	lb.	.26½	- .32½
smaller lots works	lb.	.27	- .80
Bone (see Black, bone).			
Hardwood, bulk, lump, c.l., f.o.b. plant	ton.	55.00	- —
briquets, bulk, c.l., f.o.b. plant.	ton.	75.00	-80.00
5 lb. paper bags, c.l., same basis	ton.	108.00	- —
10 lb. paper bags, c.l., same basis	ton.	95.00	-98.00
25 lb. paper bags, c.l., same basis	ton.	82.00	-88.00
40-lb paper bgs., c.l., same basis	ton.	81.00	-85.00
Pinewood, gran., bgs., c.l., works, South	ton.	57.00	- —
l.c.l., works, South	ton.	57.00	-67.00
lump, bgs., c.l., works, South	ton.	53.50	- —
l.c.l., works, South	ton.	56.50	-71.00
bulk, c.l., works, South	ton.	38.00	- —
l.l., works, South	ton.	41.00	- —
Chestnut extract, Italian, solid, 60% tannin, bgs., exdock, plus duty	lb.	.09½	- —
powd., 70% tannin, bgs., exdock, plus duty	lb.	.10½	- —
Chloral, tech. 94% min., dms., c.l., works	lb.	.23	- —
l.c.l., works	lb.	.24	- —
tanks, multiple units, 5 cars, works	lb.	.21	- —
Chloral hydrate, USP, 40 lb. jars, 1,000-lb. lots	lb.	1.00	- —
500-lb lots	lb	1.03	- —
100-lb lots or less	lb	1.05	- —
Chloramine T, NF, bbls. works	lb.	.75	- 1.00
Chlordan, agricultural, dms., c.l., frt. alld	lb.	.65	- —
l.c.l. 5,000 to 10,000-lb. lots, frt. alld	lb.	.68	- —
clarif., dms., c.l., frt. alld	lb.	.69	- —
l.c.l. 5,000 to 10,000-lb. lots, frt. alld	lb.	.70	- —
Chlorinated paraffin, 42%, dms., c.l., frt. alld	lb.	.16¼	- —
l.c.l., same basis	lb.	.17¼	- —
70%, dms., c.l., same basis	lb.	.18¾	- —
l.c.l., same basis	lb.	.19¾	- —
Rubber, 5, 10, 20 cps., ctns., c.l., works	lb.	.55	- —
l.c.l., works	lb.	.56	- —
125, 1,000 cps., ctns., c.l., works.	lb.	.65	- —
l.c.l., works	lb.	.66	- —
Chlorine, liq., cyls., c.l., works, frt. equald	lb.	.10¼	- —
l.c.l., Metropolitan area	lb.	.11¾	- .13
tanks, single units, works, frt. equald	100 lbs.	3.15	- —
multiple units, 5 cars, works, frt. equald	100 lbs.	4.05	- —
3 cars, same basis	100 lbs.	4.25	- —
2 cars, same basis	100 lbs.	5.25	- —
1 car, same basis	100 lbs.	7.25	- —
4-Chloro-2-aminotoluene, fused, bbls.	lb.	1.43	- —
m-Chloroaniline, dms., min. 10,000 lbs. or over, frt. alld	lb.	.73	- —
less than 10,000 lbs., same basis.	lb.	.80	- —
tanks, same basis	lb.	.73	- —
o-Chloroaniline, dms., c.l., frt. alld.	lb.	.65	- —
l.c.l., same basis	lb.	.67	- —
tanks, same basis	lb.	.63	- —
p-Chloroaniline, dms. c.l., frt. alld.	lb.	.77	- —
l.c.l., same basis	lb.	.79	- —
o-Chlorobenzaldehyde, dms., t.l., works	lb.	1.05	- —
l.t.l., works	lb.	1.20	- —
p-Chlorobenzaldehyde, dms., c.l., works	lb.	1.95	- —
Chloroform, tech., dms., c.l., dlvd. E	lb.	.18	- —
l.c.l., same basis	lb.	.19	- —
tanks, same basis	lb.	.17	- —
USP, dms	lb.	.30	- —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis	lb.	.81	- —
powd., dlvd. E., 100% basis	lb.	86	- —
4-Chloro-2-nitroaniline, powd., dlvd. E	lb.	.80	- —
o-Chlorophenol, dms., c.l., frt. equald.	lb.	.37	- —
l.c.l., same basis	lb.	.38	- —
p-Chlorophenol, dms., c.l., frt. equald	lb.	.37	- —
l.c.l., same basis	lb.	.38	- —
Chloropicrin, coml., bots	lb.	1.50	- —
cyls., 180 lbs., frt. alld	lb.	.95	- —
100 lbs. same basis	lb.	.97	- —
25 lbs., same basis	lb.	1.22	- —
Choline bitartrate fib. dms., frt. adjusted	lb.	1.25	- 1.35
Chloride, fib. dms., frt. adjusted.	lb.	1.25	- 1.35
Dihydrogen citrate, fib. dms., frt. adjusted	lb.	1.25	- 1.35
Chromium acetate, soln., 7½%, bbls., works	lb.	.09¼	- —
cbys., works	lb.	.11¼	- —
Fluoride, bbls., works	lb.	.51	- .52
Green (see Green, chrome).			
Oxide (see Green chromium oxide).			
Trioxide, NF, bots	lb.	.82	- .89
Yellow (see Yellow chrome).			
Cinchona bark, NF, red, broken, bgs	lb.	.35	- .40
yellow broken, bgs	lb.	.35	- .40
Cinnamic alcohol (see Alcohol cinnamic).			
Aldehyde, cns., dms	lb.	.95	- 1.25
Cinnamon, Ceylon, No. 2, bgs	lb.	.90	- .91
"0000", bgs., afloat	lb.	1.07	- —
Citral, bots., cns	lb.	4.90	- 5.90
Citronellal, bots., dms	lb.	2.85	- 3.50
Citronellol, bots., dms.	lb.	4.30	- 4.60
Civet, artif., bots	lb	13.75	15.00
nat., bots	oz.	8.50	-15.00
Clay, ball dom., airfloated, bgs., c.l., Tenn	ton	19.50	—
crushed shed moisture, bulk, c.l. Tenn	ton	10.00	—
purif., bgs., c.l., Tenn	ton	20.50	—
imp., airfloated, bgs., c.l., Atl. port	long-ton	42.00	45.00
lump bulk Atl port	long-ton	27.00	30.20
China, dom., dry grd. airfloat 99% 325 mesh, bgs., c.l. Georgia works	ton.	10.00	—
l.c.l., Georgia, works	ton.	15.50	—
300 mesh., bgs., c.l., Georgia, works	ton.	13.50	14.50
l.c.l., same basis	ton.	35.00	-36.00
imp., white, lump bulk c.l. ex dock, Phila., Portland, Me	gross ton.	20.00	35.00
powd., bgs., c.l. ex dock	net ton.	50.00	.... —
l.c.l., ex whse	net ton.	60.00	-65.00
Clove, Madagascar, bgs	lb.	.42½	- —
Zanzibar, bgs	lb.	.47	- —
CMC, crude 96%, low or medium vis., bgs., or fib dms., 23,000 lbs., dlvd. E., 100% basis	lb.	.39½	41
less than 23,000 lbs., dlvd. E., 100% basis	lb.	.41½	43

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Syloid® 308 . . . lacquer flatting agent.

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Syloid® 162 . . . alkyd-urea varnish flatting agent.

Syloid® 244 . . . superior flatting agent in clear alkyd finishes and oleoresinous varnish.

CMC, crude, 65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .39½- .41
t.c.l. dlvd E. 100% basis lb. 41½- .43
purif., high vis. (see Gum Cellulose).
Standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
CMC prices W of the Rockies are 2c. per lb lower and are on a works basis.

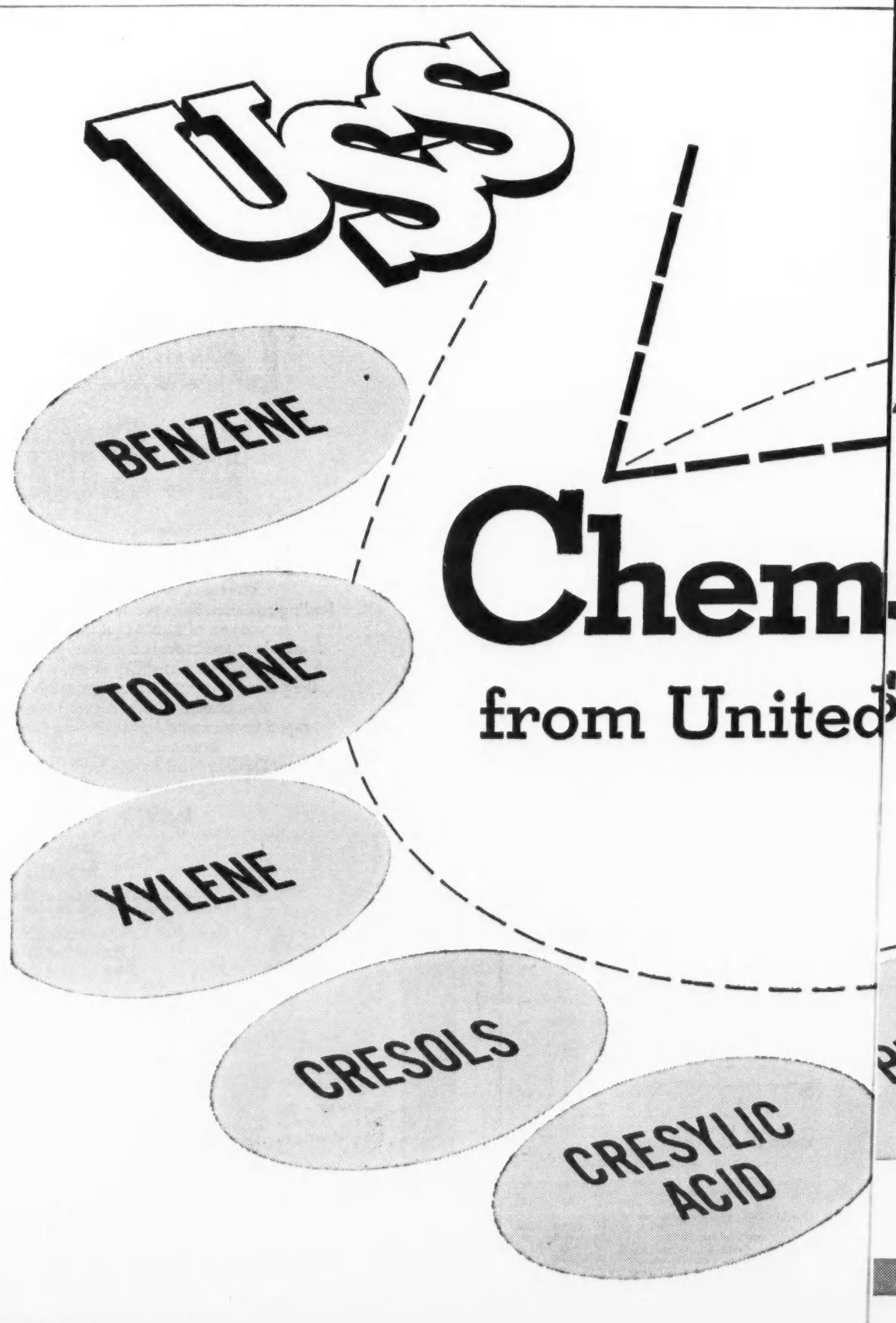
Coaltar crude, resale for soins. dms., c.l., ex-whse gal. .255 - —
t.c.l., ex-whse gal. .275 - —
tanks, ex works gal. 155 .159
refd., resale, dms., c.l., ex-whse. gal. .2650- .32
t.c.l. ex-whse gal. .2850- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, dms., dlvd. lb. 1.20 - —
Carbonate, 46% powd., bgs., dlvd. lb. 1.85 - —
Chloride, 24.2% Co. dms., dlvd. lb 1.20 - —
Hydrate 60-61% Co. dms. dlvd lb 2.62 — —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liq., 6% Co. dms lb. 61 - —
Metal, 97-99%, kgs., ex whse lb 2.60 —
Naphtenate, liq., 6% Co., dms., dlvd lb. 48¼- —
Nitrate, 20.1% Co., bbls., dlvd. lb. 1.00 - —
Oxide, black, 72½-73½% Co., kgs lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused, 3% Co., dms. lb. .29¾- —
Sulfate cryst., 21% Co., dms., dlvd lb. .79 - —
monohydrated, 33% Co., dms., dlvd lb. 1.32 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz. 17.80 - —
Hydrochloride, cns., 100-oz. lots. oz. 13.75 - —
Cocilana bark, bls. lb. .25 - —
Cocoa butter, bgs. lb. .52 - .55
Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots. oz. 11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz. 10.25 - —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb .20 - .22
blue, bls lb .20 - .22
Colchicine, USP, bots., cns. oz. 29.00 -35.50
Colchicum root, bls lb. .35 - —
seed, bgs lb. .60 - —
Collodion, USP, dms. lb .32½- —
flexible, dms lb. .34 - —
Colocynth, pulp, bls lb. .55 - —
Colombo root, bls lb. .15 - .16
Condurango bark, bales lb. .26 - —
Copaiba balsam, cns., dms lb. .85 - —
Copper acetate, bbls., c.l., works lb. .53 - —
t.c.l., works lb .54 - —
Carbonate, 55% bgs., c.l. works. lb. .3775- —
t.c.l., works lb. .3925- —
Chloride, anhyd., dms., works lb. .47½- .47¾
cryst., dihydrate, dms., works. lb. .32¼- .32⅝
dried, dms., works lb. .40½- .41
Cyanide, tech., bbls., 20,000-lb. lots or more lb. .77½- —
1,000-lb. lots or more lb. .78½- —
smaller lots lb. .80½- —
Gluconate, dms lb. 3.15 - 3.35
Hydrate, dms., c.l., frt. alld. E. of Miss lb. .57 - —
t.c.l. same basis lb. .57½- —
Metal, electrolytic, dlvd., Valley basis lb. .40 - —
Naphthenate, liq., 8% Cu. dms., frt. alld lb. .24½- —
Nitrate tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 9% Cu dms., works lb. .45 - —
Oxide, black, bbls., 100-2,000-lb. lots, works lb. .54 - —
red, 97% USN Type I, bbls., 100-5,000 lb. lots lb. .64½- —
90% USN Type II, bbls., 100-5,000 lots or more, works. lb. .62½- —
Oxychloride, dms., c.l., works lb. .53 - —
t.c.l., works lb. .53½- .63½
Quinolinolate, fib. dms lb 4.25 - 4.50
Resinate, precip., dms., frt. alld. lb. .31½- —
Sulfate, CP, gran., bbls., works lb. .2210- —
cryst., 99%, bgs., c.l., works. 100 lbs. 15.20 - —
t.c.l., same basis 100 lbs. 15.70 -18.20
monohydrated, 35%, dms., c.l., works 100 lbs. 25.00 - —
t.c.l., works 100 lbs. 25.75 - —
tribasic, dealers, bgs., c.l., works, frt. equald 100 lbs. 32.65 - —
t.c.l., same basis 100 lbs. 33.65 -36.65
Undecylenate, dms lb 2.00 3.00
Copra, Atlantic, Gulf ports, c.i.f. ton. 156.00 - —
Pacific Ports, c.i.f. ton. 151.00 - —
Coriander seed, Moroccan, bgs lb. .12 - —
Roumanian, bgs lb. .09 - .09½
Yugoslavian, bgs lb. .08½- —
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.26 - —
t.c.l. 100 lbs. 7.51 - —
Syrup, 42°, non-ret. dms., c.l. 100 lbs. 7.34 - —
t.c.l. 100 lbs. 7.49 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, NNR, bulk gram 3.50 3.55
Cottonseed meal, 41% bgs., Memphis ton. 54.50 -55.00
Cramp bark, NF, bls lb. .85 - .90
Coumarin, NF, cryst., dms lb. 3.60 - —
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots, cbys. lb. 3.05 3.26
Coaltar crude tanks, works, frt. adjusted gal. 22 - —
soln 80% tanks, works gal. 2068- —
refd., dms., c.l., works gal. .42 - .44
t.c.l., same basis gal. .53 - .55
tanks, same basis gal. .33 - .35
Wood, beechwood, cbys., dms lb. 1.60 - 1.65
hardwood, NF, bots, cbys lb 1.30 1.35
pinewood, dms., c.l., incl lb. 0561 - —
t.c.l., incl lb. 0634- —
N. Y. whse lb. .0745- —
tanks, works lb. .0460- —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt equald lb. .1625- —
t.c.l., same basis lb. .1675- —
tanks, same basis lb .145 —

Cresol, USP, non-ret. dms., c.l., same basis lb. .1775- —
t.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
m-Cresol, 95-98% dms., c.l., works. lb .60 - —
t.c.l., works lb. 61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald lb. .1775- —
t.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
2-97%, 2°C., dms., c.l., frt. equald. lb. .2175- —
t.c.l., same basis lb. .2225- —
tanks, same basis lb. 200 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .16¾- .17¾
t.c.l., same basis lb. .17¼- .18¼
tanks, same basis lb. .15 - .16
29°C, ret. dms., c.l., frt. equald. lb. .15¾- .16¾
t.c.l., same basis lb. .16¼- .17¼
tanks, same basis lb. .14 - .15
25-29°C., dms., c.l. frt. equald. lb. .14¾- .15¾
t.c.l., same basis lb. .15¼- .16¼
tanks, same basis lb. .13 - .14
p-Cresol, 98% dms., c.l., dlvd lb. .50 - —
t.c.l., dlvd lb. .51 - —
tanks, dlvd lb. 49 - —
Methyl ether, cns lb. 1.80 - 2.05
Crotonaldehyde, 91-93%, dms., t.c.l., works lb. .24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
t.c.l., works 100 lbs. 14.25 - —
insecticide, dealers, bgs., c.l., dlvd 100 lbs. 16.75 - —
t.c.l., dlvd 100 lbs. 17.75 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .29 - —
Cubeb berries, XX, NF, bgs lb. .70 - —
powd., cs lb. .85 - —
Cumene, dms., c.l., works lb. 12 - —
t.c.l., works lb. 14 - —
tanks, works lb 11 - —
t.c.l., works lb. .30 - —
Cumin seed, Iranian, bgs lb. .13½- .14
Moroccan, bgs lb. .22 - .23
Turkish, bgs. lb. N.P.
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. 08½- —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton. 55.00 - —
pulv., 21% N, bgs., works unit-ton 2.75 - —
indust. grade, bgs., c.l., works. ton. 75.00 - —
t.c.l., works ton. 96.00 - —
6-16 mesh, dms., c.l., works. ton. 120.00 - —
t.c.l., works ton. 140.00 - —
Cyclohexane, 99% tech., dms., c.l., works gal. 70 - —
t.c.l., works gal. 72 - —
tanks, works gal. 55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28 - —
t.c.l., works, same basis lb. .29 - —
tanks, works, same basis lb. .24 - —
Cyclohexanone, tech., dms., c.l., works lb. .32½- —
t.c.l., works lb. .35 - —
tanks, works lb. .29 - —

Cyclohexene, min. 98% b.r. 82.5°C-85°C, 360-lb. dms., c.l., works lb. .55 - —
t.c.l., same basis lb. .60 - —
tanks, same basis lb. .52 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
t.c.l., works lb. .48½- —
tanks, works lb. .45 - —
Cyclopropane CP, 2-lb. cyls., works cyl. 48.00 - —
6 oz. cyls., works cyl. 12.00 - —
USP, hospitals cyls., 40-gal. lots, gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2-4-D, tech. dms., c.l., works, trt. equald lb. .37 - —
t.c.l., same basis lb. .42 - .46
Butyl ester, dms., c.l., works. lb. .40 —
t.c.l., same basis lb. .45 - .49
tanks, same basis lb. .39 —
Isopropyl ester, dms., c.l., works. lb. .40 —
t.c.l., works lb. .45 - .49
tanks, works lb. .39 —
Dandelion root, bls lb. .32 - —
DDD, tech., flake, grd. fib. dms., c.l., works lb. .45 —
t.c.l. works lb. .46 —
DDT powder, bgs., c.l., works, frt. equald lb. .23 .27
smaller lots, same basis lb. .24 .28
fib. dms., c.l., same basis lb. .24 .28
smaller lots, same basis lb. .25 .29
1-Decanol, tech., dms., c.l., dlvd lb. .41 —
t.c.l. dlvd. lb. .43 —
tanks, dlvd. lb. .38½- —

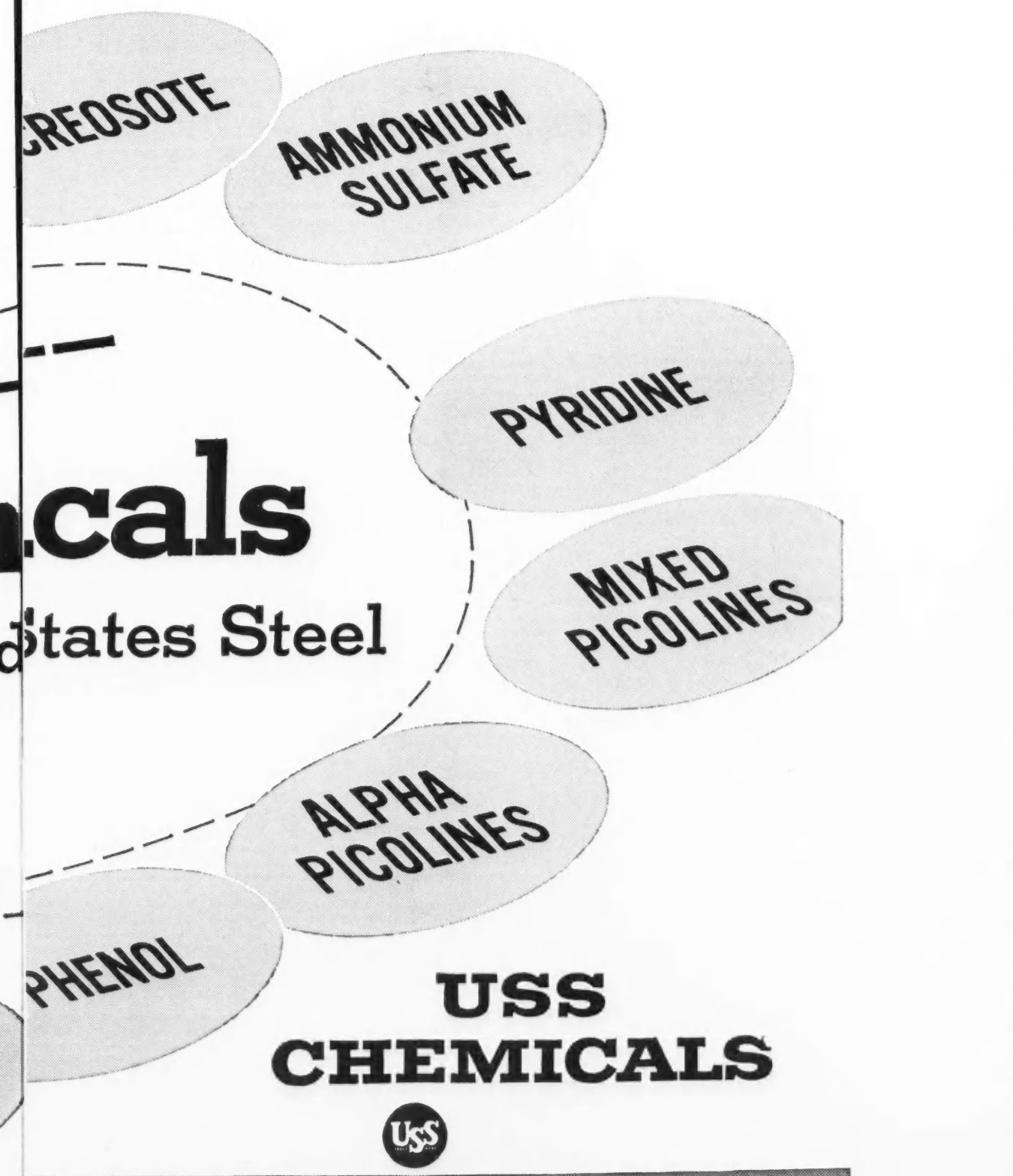


Deertongue leaves, bls ..... lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton 49.50 - —
17%P paper bgs. c.l., t.l. works ton 58.00 - —
18% P, paper bgs., c.l., t.l., works ton 64.10 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bag carlot prices.
Degras, neutral, bbls ..... lb. .10 - .18
d-Desoxyephedrine hydrochloride, bots lb 24.00 - 25.00
dl, bots ..... lb 6.50 —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 9.28 - —
l.c.l. ..... 100 lbs. 9.43 - —
canary, dark, paper bgs., c.l. 100 lbs. 9.12 - —
l.c.l. ..... 100 lbs. 9.27 - —
light, paper bgs., c.l 100 lbs. 9.02 - —
l.c.l. ..... 100 lbs. 9.17 - —
white, paper bgs., c.l. 100 lbs. 8.86 - —
l.c.l. ..... 100 lbs. 9.01 - —
Corn dextrin in cotton bgs 15c per 100 lbs higher
Potato imported bgs ..... lb. 10½ - .11
Dextrose, USP, dms ..... lb. 17¾ —
Diacetone (see Alcohol diacetone).
Diacetyl flavor grade bots ..... lb. 4.25 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .32 - —
l.c.l. works ..... lb. .33 - —
tanks, works ..... lb. .29½ - —
Di-tert-amyl phenol, dms., c.l., works lb. .32 - —
l.c.l., works ..... lb. .33 - —
tanks, works ..... lb. .29½ - —
o-Dianisidine fib dms ..... lb 2.00 —

Dibenzyl sebacate, dms., c.l., works, lb. .89¾ - .90
l.c.l., same basis ..... lb. .90¼ - .91
tanks, same basis ..... lb. .88 —
p-Dibromobenzene bgs., 500-lb. lots, lb. .55 —
Dibutyl phthalate, dms., c.l., dlvd, E lb. .32½ - —
l.c.l., same basis ..... lb. .33½ - —
tanks, same basis ..... lb. .30 - —
Sebacate, dms., c.l., works .. lb. .66 - —
l.c.l., works ..... lb. .66½ - .67
tanks, works, dlvd ..... lb. .64 .64¼
Tartrate dms works frt alld lb. .64 —
Dibutylamine, dms., c.l. dlvd .. lb. .55½ - —
l.c.l., same basis ..... lb. .56½ - —
tanks, same basis ..... lb .53 —
2,6-Di-tert-butyl-p-cresol, food grade, dms. t.l. c.l., dlvd lb. 1.20 - —
l.t.l., dlvd ..... lb. 1.24 - —
tech., dms., c.l. ..... lb. .91 - —
l.c.l. ..... lb. .95 - —
tanks ..... lb. .86 - —
Dicapryl phthalate dms. c.l. dlvd., lb. .31 - .32
l.c.l., dlvd ..... lb. .32 - .33
tanks, dlvd ..... lb .29½ —
Sebacate dms., c.l., works ..... lb .63 —
l.c.l. works ..... lb .63½ - .64
tanks, works ..... lb .61 —
2,5-Dichloroaniline dms. works lb .83 —
o-Dichlorobenzene dms. c.l., frt. alld E lb. .12¼ —
l.c.l. same basis ..... lb. .13¼ - —
tanks, same basis ..... lb. .10¾ - —
p-Dichlorobenzene dms. c.l., frt. alld E lb. .14½ - —
l.c.l., same basis ..... lb. .17 —
1,4-Dichlorobutane dms. c.l. or t.l., works lb. .33½ - —
l.c.l., or l.t.l., works ..... lb. .34 - —
tanks, works ..... lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).

Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works ..... lb. .06 - —
tanks works ..... lb. .03 - —
Dicyclohexylamine dms. c.l. works. lb. .51 - —
l.c.l. works ..... lb. .51¾ - —
tanks, works ..... lb. 49½ - —
Dicyclohexyl phthalate fib. dms., c.l., works, frt alld lb. .58¼ 59
l.c.l. same basis ..... lb. .59¼ 60
Didecyl phthalate dms. c.l., works. lb. .34 —
l.c.l. same basis ..... lb. .35 —
tanks same basis ..... lb .31½ - —
Dieldrin dms frt alld ..... lb 1.80 - —
l.c.l. frt alld ..... lb. 1.85 - —
Diethanolamine dms. c.l., dlvd E. lb. .27 - —
l.c.l., same basis ..... lb. .28 - —
tanks, same basis ..... lb. 24½ - —
Diethyl carbonate dms. c.l., t.l., alld lb. .47 - —
l.c.l. same basis ..... lb .48 - —
tanks same basis ..... lb .45 - —
Ethanolamines, dms. c.l., dlvd. lb. .69½ - —
l.c.l., dlvd ..... lb. .70½ - —
tanks dlvd ..... lb .67 - —
Oxalate dms., c.l., frt alld lb. .42 —
l.c.l same basis ..... lb. .43 - .45
tanks same basis ..... lb. .40 —
Phthalate, dms., c.l., dlvd. .. lb. .30 - .30½
l.c.l., dlvd. ..... lb. .31 - .31½
tanks, dlvd. ..... lb. .27½ - .28
Sulfate, dms., c.l., works .... lb. .19 - —
l.c.l., works ..... lb. .19¾ - —
tanks, works ..... lb .17 —

Diethylamine, dms., c.l. dlvd. E lb. .51 - —
l.c.l., same basis ..... lb. .52 - —
tanks, same basis ..... lb. .48½ - —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .57 - —
l.c.l., same basis ..... lb. .58 - —
tanks, same basis ..... lb. .55 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol dms. c.l. dlvd E. lb. .17¾ - —
l.c.l. same basis ..... lb. .18¼ - —
tanks, same basis ..... lb. .15¼ - —
Boriborate dms. l.c.l. ..... lb. .31 —
Diethyl ether dms. c.l., works. lb. .47½ - —
l.c.l., works ..... lb. .48¼ - —
Monobutyl ether, dms., c.l., dlvd. E lb. .30¾ - —
l.c.l. dlvd E ..... lb. .31¾ - —
tanks, dlvd E ..... lb. .28¼ - —
acetate, dms., c.l., works lb. .30¼ - —
l.c.l., works ..... lb. .31 - —
tanks, dlvd E ..... lb. .28¼ - —
Monoethyl ether, dms., c.l., dlvd lb. .22½ - —
l.c.l., dlvd ..... lb. .23½ - —
tanks, dlvd ..... lb. .20 - —
acetate, dms., c.l., works lb. .27¼ - —
l.c.l., works ..... lb. .28 - —
tanks, dlvd E ..... lb. .25¼ - —
Monomethyl ether, dms., c.l., dlvd lb. .20½ - —
l.c.l., dlvd ..... lb. .21½ - —
tanks, dlvd. ..... lb. .18½ - —
Diethylenetriamine dms. c.l. dlvd. E lb. .44 - —
l.c.l. dlvd E ..... lb. .45 - —
tanks, dlvd E ..... lb .41½ - —
Diethylstilbestrol, USP, bots., 10 kilo lots kilo 100.00 - 147.50
1 kilo lot ..... kilo 110.00 - 152.50
Digitalis leaves USP dom dms. lb. 1.20 - —
Digitoxin, USP, bots ..... gram. 4.75 - 5.25
Diglycol laurate, dms ..... lb. .32¾ - .34
Stearate, dms., ton lots ..... lb. .26 - .28
Dihexyl sebacate dms. c.l. works. lb .64 —
l.c.l. works ..... lb .64½ 65
tanks, works ..... lb 62 —
Dihydrazine sulfate dms works lb 1.10 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .07 .07¾
Sulfate bulk ..... gram. .07 .07¾
1,2-Dihydroxy anthraquinone, dms. works lb 2.75 —
4,2-Dihydroxy-5-5-dichloro-diphenyl methane pure, dms lb 2.55 - —
tech. dms lb 1.09 - —
Di-isobutyl ketone dms c.l. dlvd lb. .17 - —
l.c.l., dlvd ..... lb. .18 - —
tanks, dlvd ..... lb. .14½ - —
Phthalate, dms., c.l., dlvd. E lb. .31½ - —
l.c.l. same basis ..... lb. .32½ - —
tanks, same basis ..... lb. .29 - —
Di-isobutylene dms. c.l. dlvd E lb .10 —
l.c.l. dlvd E ..... lb .11 —
tanks dlvd E ..... lb. .08 —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .31 - —
l.c.l., same basis ..... lb. .32 - —
tanks, same basis ..... lb. .28½ - —
Sebacate, dms., c.l. works .. lb. .63½ - —
l.c.l., works ..... lb. .64½ - —
tanks, works ..... lb 61 —
Di-isopropanolamine dms., c.l., dlvd. lb. .23¼ - —
l.c.l., same basis ..... lb. .24¼ - —
tanks, same basis ..... lb. .20¾ - —
Di-isopropylamine dms c.l. dlvd E. of Rockies lb. .50½ - —
l.c.l., same basis ..... lb. .51½ - —
tanks same basis ..... lb 46 - —
Dillseed, dewhiskered, bgs .. lb. .09¼ - —
nat., bgs. ..... lb. .08 —
Dimethyl anthranilate, cns ..... lb. 4.35 5.10
Chloroacetal dms. c.l. works lb 45 —
l.c.l. works ..... lb .50 —
tanks works ..... lb 40 —
Ethanolamines, anhyd., dms., c.l., dlvd lb. 1.225 - —
l.c.l., dlvd ..... lb. 1.235 - —
tanks, dlvd. ..... lb. 1.20 - —
70% dms. c.l., dlvd. 100% basis, contained amines lb. .68½ - —
l.c.l., dlvd., 100% basis lb. .69½ - —
tanks, dlvd 100% basis lb. .66 - —
Hydroquinone, dms. ..... lb. 2.20 2.25
Phthalate, dms., c.l., works .. lb. .31 - —
l.c.l., works ..... lb. .32 - —
tanks, works ..... lb. .28½ - —
Sebacate dms., c.l. works .. lb 1.275 - —
l.c.l., dlvd ..... lb. 1.283 - —
tanks, works ..... lb 1.25 —
Sulfate, 55-gal ret. dms., c.l., works lb. .15 - —
l.c.l. works ..... lb .16 - —
10-gal ret dms. l.c.l. works. lb. .16½ - —
Dimethylamine 25% soln dms. c.l., frt equald lb. .42 - —
l.c.l. frt equald lb. .42½ - —
tanks, frt equald ..... lb. .33 —
40% soln. dms. c.l. frt equald lb. .39 - —
l.c.l. frt equald lb. .39½ - —
tanks, frt. equald lb. .35 —
N,N-Dimethylaniline dms. c.l., frt. alld lb. .32 - —
l.c.l., frt. alld ..... lb. .33 - —
tanks, frt. alld ..... lb. .30 - —
N,N-Dimethylformamide dms works. lb. .34 .39
tanks works ..... lb .32 —
2,4-Dinitroaniline dms., 1,000-lb. lots, same basis, frt. equald lb. .68 - —
smaller lots, frt. equald ..... lb. .71 - —
m-Dinitrobenzene, 85°C., dms lb. .22 - —
89°C., dms ..... lb. .24 - —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt alld. E lb. .15¼ - —
l.c.l., frt. alld E ..... lb. .15¾ - —
tanks, frt. alld E ..... lb. .15 - —
2,4-Dinitrochlorobenzene, crystallizing at 48°C., dms., c.l., frt. alld. E lb. .20¼ - —
l.c.l. frt alld. E ..... lb. .20¾ - —
tanks, frt. alld. E ..... lb. .20 - —
2,4-Dinitrophenol, bbls ..... lb. .37 - —
2,4-Dinitrotoluene, oily, dms ... lb. .11 - —
refd., 63°C., dms ..... lb. .23 - —
Dioctyl adipate, dms., c.l., works. lb. .42½ - —
l.c.l., works ..... lb. .43½ - —
tanks, works ..... lb. .40 - —
Phthalate, dms., c.l., frt. alld. lb. .31 - —
l.c.l., frt. alld. ..... lb. .32 - —
tanks, frt. alld. ..... lb. .28½ - —
Sebacate, dms., c.l., works ... lb. .60½ - —
l.c.l., works ..... lb. .61½ - .62½
tanks works, dlvd ..... lb. .58 - .58½
smaller lots, frt. alld ..... lb. .63 - —
1,4-Dioxane, dms., c.l., works ... lb. .28¾ - —
l.c.l., same basis ..... lb. .29¼ - —
tanks, same basis ..... lb. .27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works. lb. .35 - —



Dipentene—Ethyl Aminobenzoate

Dipentene, dest-dist., dms., c.l., works	gal.	.47	-	—
l.c.l., works	gal.	.52	-	—
ex-whse.	gal.	.62	-	—
steam-dist., dms., c.l., works, South	gal.	.59	-	—
dlvd. N. Y.	gal.	.67	-	—
tanks, works, South	gal.	.45	-	—
Diphenyl, bbls., c.l., works	lb.	.15	-	—
l.c.l., works	lb.	.16	-	—
Diphenyl in bags ½c. lower				
Oxide, perfume grade, cns.	lb.	.56		.61
Phthalate, dms., c.l., works	lb.	.51¾	-	—
l.c.l., works	lb.	.53¾	-	—
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald	lb.	.33	-	—
l.c.l., works, frt. equald	lb.	.35	-	—
fused, tanks works, frt equald	lb.	.31	-	—
tech., fused, tanks, works, frt. equald	lb.	.30	-	—
Diphenylguanidine, bgs., dms., ton lots, frt. alld	lb.	.52	-	—
smaller lots, frt. alld.	lb.	.53	-	—
Diphenylhydantoin-sodium USP, dms	lb.	5.00		5.60
Dipropylene glycol, dms. c.l., frt. alld	lb.	.17¼	-	—
l.c.l., same basis	lb.	.18¼	-	—
tanks, same basis	lb.	.15¼	-	—
Monomethyl ether dms., c.l., dlvd. E	lb.	.20	-	—
l.c.l., same basis	lb.	.21	-	—
tanks, same basis	lb.	.18½	-	—
Di-o-tolylguanidine, dms., ton lots, frt. alld	lb.	.62	-	—
smaller lots, frt. alld.	lb.	.63	-	—

Divi-divi, 45% tannin, bgs., bls., c.l., U S ports exdock	ton	70.00		72.00
Divinylbenzene 20-25% dms., c.l., works, frt. equald	lb.	.20	-	—
l.c.l., same basis	lb.	.21	-	—
tanks, same basis	lb.	.19	-	—
50-60%, dms., c.l., works, 100% basis	lb	1.00	-	—
l.c.l., works, 100% basis	lb	1.05	-	—
Dodecylbenzene, dms., c.l., frt. alld	lb.	.14	-	—
l.c.l. same basis	lb.	.15	-	—
tanks, same basis	lb.	.12	-	—

Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb and 1-lb. lots, dlvd:—

Blue, FD & C, No. 1	lb.	15.65	17.60
No. 2	lb.	15.65	17.60
Green, FD & C, No. 1	lb.	15.65	17.60
No. 2	lb.	19.60	22.85
No. 3	lb.	21.30	35.90
Red, FD & C, No. 1, cns	lb	5.90	7.85
No. 2	lb	3.30	4.10
No. 3	lb.	19.60	22.85
No. 4	lb.	5.55	7.50
Violet, FD & C, No. 1, cns	lb.	15.65	17.60
Yellow, FD & C, No. 1, cns	lb	9.15	11.05
No. 5	lb	3.30	4.10
No. 6	lb.	3.30	4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—

Black, D&C, No. 1	lb.	10.50	10.95
Brown, D&C, No. 1	lb.	15.65	16.10
Green, D&C, No. 5	lb.	15.65	16.10
No. 6	lb.	15.65	16.10
No. 7	lb.	14.35	14.80

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Orange, D&C, No. 3	lb.	10.50	10.95
No. 4	lb.	19.60	20.05
No. 5	lb.	5.25	5.70
No. 17	lb.	10.50	10.95
No. 18	lb.	23.55	24.00
No. 19	lb.	15.00	15.45
No. 21	lb.	3.10	3.60
No. 22	lb.	10.50	10.95
No. 33	lb.	24.20	24.65
No. 33	lb.	17.00	17.45
Violet, D&C, No. 2	lb.	15.65	16.10
Yellow, D&C, No. 7	lb.	10.50	10.95
No. 8	lb.	10.50	10.95
No. 10	lb.	13.05	13.50
No. 11	lb.	13.05	13.50

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots dlvd:—

Blue, Ext., D&C, No. 1, cns	lb.	15.65	16.10
Green, Ext., D&C, No. 1, cns	lb.	15.65	16.10
Red, Ext., D&C, No. 1, cns	lb.	13.05	13.50
Yellow, Ext., D&C, No. 1, cns	lb.	10.50	10.95

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

20	Chrysoidine Y, dustless	lb.	.89	—
27	Fast light, orange 2G	lb.	1.09	—
31	Phloxine 2G	lb.	.89	—
36	Yellow 2G	lb.	1.00	—
40	Orange R extra, conc.	lb.	1.29	—
57	Fuchsine 6B	lb.	1.31	—
79	Scarlet 2R	lb.	.98	—
151	Orange AD	lb.	.67	—
161	Orange RR	lb.	.80	—
176	Fast red A	lb.	1.18	—
179	Rubine XX, conc.	lb.	1.25	—
180	Blue F4B	lb.	1.11	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

185	Brilliant scarlet 3RU, conc.	lb.	1.02	—
202	Chrome blue black R, conc.	lb.	.91	—
561	Brown B	lb.	2.45	—
581	Black EB, 200%	lb.	1.13	—
203	Chrome black T	lb.	.94	—
208	Fast blue SR	lb.	1.10	—
216	Chrome red B	lb.	.92	—
234	Brown Y	lb.	1.08	—
246	Blue black, extra, conc	lb.	1.16	—
275	Milling red 3R, conc	lb.	1.62	—
289	Navy blue 3R, conc.	lb.	1.44	—
299	Black F, conc	lb.	1.86	—
304	Neutral black 2B, conc.	lb.	2.21	—
326	Fast scarlet 4BNC	lb	1.80	—
332	Bismark brown RX, conc., dustless	lb.	1.16	—
365	Brilliant yellow, conc	lb	3.11	—
382	Scarlet B	lb	2.20	—
401	Diazo black BHD	lb.	.79	—
406	Blue 2B, extra conc.	lb.	1.30	—
419	Red FC	lb	1.23	—
420	Brown M	lb.	1.19	—
448	Red 4BX, conc	lb	1.43	—
518	Diamine sky blue FF, extra, conc	lb	1.65	—
593	Green BY, conc	lb	.87	—
596	Yellow Brown K, extra	lb	1.07	—
620	Yellow 2G	lb	1.11	—
639	Fast Yellow GG	lb	1.97	—
640	Yellow XX	lb	1.95	—
655	Yellow OX	lb	2.24	—
657	Green V	lb	2.31	—
662	Brilliant green G	lb	3.07	—
667	Milling green 6B, conc	lb	4.05	—
671	Blue EG	lb	1.68	—
681	Crystal violet powder	lb	2.15	—
698	Violet 6BN Powder	lb	1.91	—
720	Brilliant blue BBG	lb	2.07	—
729	Blue B, conc	lb	3.06	—
749	Red BX	lb	87	—
800	Chinoline yellow ZSS	lb	2.67	—
860	Induline base ZM	lb	1.07	—
860	Induline base Z2R	lb	1.07	—
814	Yellow NN, conc	lb	3.11	—
841	Safranine GF, extra, conc.	lb	3.48	—
865	Nigrosine J	lb.	4.76	—
922	Blue GXX	lb	1.88	—
978	Black GXCF, conc	lb	.32	—
1034	Alizarine red SC	lb	2.85	—
1054	Alizarine blue SAPX	lb	3.20	—
1078	Alizarine green CG, extra	lb	2.99	—
1085	Alizarine blue black B	lb	2.56	—
1096	Golden orange GFD, single paste	lb.	2.19	—
1099	Dark blue BO, single paste.	lb	1.93	—
1101	Jade green N supra double paste	lb	1.10	—
1106	Blue RS, double paste	lb	3.26	—
1113	Blue BLFD, double paste	lb	2.48	—
1150	Olive R, single paste	lb.	1.21	—
1151	Brown R single paste	lb	1.94	—
1171	Indigo synthetic, 20% paste.	lb.	31	—
1217	Orange RD, double powder	lb	3.94	—
p-4	Brown PG	lb	2.54	—
p-14	Brown EB	lb	1.83	—
p-24	Gray L	lb	1.76	—
p-80	Diazo brilliant scarlet ROAD	lb	3.07	—
p-202	Diazo black VJ, conc	lb	2.10	—
p-244	Brilliant scarlet BN	lb	1.44	—
p-313	Naphthol SWF	lb	2.24	—

Dyes, coaltar oil soluble, 100 lb. dms., dlvd.

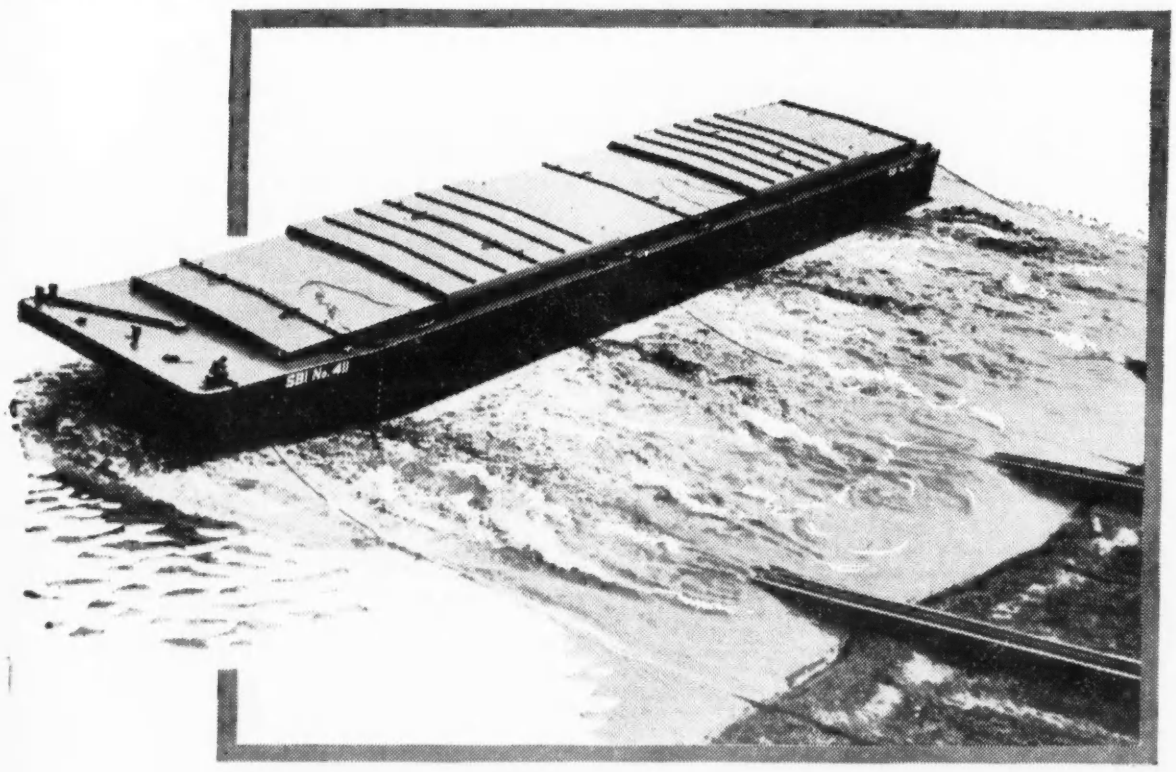
24	Oil orange Z-7078	lb	1.06	—
73	Oil scarlet ZBL	lb.	1.44	—
1073	Oil violet ZIRS	lb.	6.81	—
1073	Alizarine cyanine green base Z	lb	6.13	—
1080	Oil violet special Z	lb	6.81	—
	Oil black ZBC	lb.	4.46	—
	Oil black ZBD	lb.	3.03	—
	Oil black ZHH	lb	4.61	—
	Oil black ZMM	lb	6.52	—
	Oil blue ZN	lb	8.02	—
	Oil blue ZV	lb	4.95	—
	Oil orange ZMG	lb.	1.32	—
	Oil red Z-1700	lb.	1.49	—
	Oil yellow ZG, conc.	lb.	6.33	—

Dyes, coaltar, spirit soluble, 100 lb. dms. dlvd.

p-517	Spirit yellow ZR	lb	4.62	—
p-520	Spirit orange ZR, conc	lb	5.87	—
	Spirit black ZRB	lb	2.95	—
	Spirit brown ZG	lb	5.30	—
	Spirit red ZB, conc.	lb.	6.41	—

E

Echinacea root, bls	lb.	1.10	—
Egg albumin (see Albumin).			
Yolk, dried, dom., bbls	lb.	1.05	1.07
tanners, bbls	lb.	.06	.06¼
Elm bark, grinding, bls	lb.	.30	.32
powd., bbls., bxs	lb.	.45	—
select, bundles	lb.	75	—
Emetine hydrochloride, USP, bots	oz.	48.25	49.00
Endrin, tech., dms., dlvd., 100% basis	lb.	3.75	—
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots	oz.	.98	1.00
hydrous, bots., 100-oz. lots	oz.	.92	—
Hydrochloride, tins, 100-oz. lots	oz.	.75	—
Sulfate, cryst., tins, 100-oz. lots	oz.	72	—
powd. tins, 100-oz. lots	oz.	73	—
Epichlorohydrin, dms., c.l., dlvd	lb.	.35	—
l.c.l., dlvd	lb.	.36	—
tanks, dlvd	lb.	.33	—
Epinephrine, syn., USP, bots., 100-gram lots	gram	.60	—
Epsom salt (see Magnesium sulfate).			
Ergot, NF dms., tin-lined	lb	2.00	—
Eserine salicylate, bots	oz.	72.50	84.00
Sulfate, bots	oz.	87.75	—
Ether (see specific product)			
Ethyl acetate, nat., ferment., 85-88%, dms., c.l., frt. alld	lb.	.14½	—
l.c.l., frt. alld	lb.	.15½	—
tanks, frt. alld	lb.	.12	—
95-98%, dms., c.l., frt. alld.	lb.	.14¾	—
l.c.l., frt. alld	lb.	.15¾	—
tanks, frt. alld	lb.	.12¼	—
99%, dms., c.l., frt. alld	lb.	.15	—
l.c.l., frt. alld	lb.	.16	—
tanks, frt. alld	lb.	.12½	—
syn., 85-88%, dms., c.l., dlvd.	lb.	.14½	—
l.c.l., dlvd	lb.	.15½	—
tanks, dlvd	lb.	.12	—
95-98%, dms., c.l., dlvd	lb.	.14¾	—
l.c.l., dlvd	lb.	.15¾	—
tanks, dlvd	lb.	.12¼	—
99%, dms., c.l., dlvd	lb.	.15	—
l.c.l., dlvd	lb.	.16	—
tanks, dlvd	lb.	.12½	—
Acetoacetate, dms., c.l., dlvd	lb.	.58½	—
l.c.l., dlvd	lb.	.59½	—
tanks, dlvd	lb.	.56	—
Acrylate, dms., c.l., t.l., dlvd.	lb.	.36	—
l.t.l., dlvd	lb.	.37	—
tanks, dlvd	lb.	.34	—
Aminobenzoate, USP (see Benzocaine).			



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Here is one of the six new 1400-ton barges which will serve users of Mathieson chemicals. These 195-foot, all-steel barges are weather tight; the rolling hatch covers can be moved to expose 50% of the hold for easier loading and unloading.

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INDUSTRIAL CHEMICALS DIVISION • BALTIMORE 3, MD.

4520

INORGANIC CHEMICALS: Ammonia • Bicarbonate of Soda • Carbon Dioxide • Caustic Potash • Caustic Soda • Chlorine • Hydrazine and Derivatives • Hypochlorite Products • Muriatic Acid • Nitrate of Soda • Nitric Acid • Soda Ash • Sodium Chlorite Products • Sulphate of Alumina • Sulphur (Processed) • Sulphuric Acid

ORGANIC CHEMICALS: Ethylene Oxide • Ethylene Glycols • Polyethylene Glycols • Glycol Ether Solvents • Ethylene Dichloride • Dichloroethylether • Formaldehyde Methanol • Sodium Methylate • Hexamine • Ethylene Diamine • Polyamines • Ethanolamines • Trichlorobenzene • Polychlorobenzene • Trichlorophenol

Ethyl amyl ketone, dms., c.l., dlvd. lb. .20 • —
Amyl ketone, dms. c.l., dlvd. lb. .20 • —
l.c.l., same basis lb. .21 • —
tanks, same basis lb. .17½ • —
Benzoate, bots lb. .74 • .90
Bromide, tech., 98%, dms., c.l., frt. alld. E lb. .42 • .44
l.c.l., frt. alld. E lb. .44 • .46
Butyl ketone, dms., c.l., works. lb. .36 • —
l.c.l., works lb. .36¾ • —
tanks, works lb. .34 • —
Butyrate, works lb. .85 • .90
Carbamate (see Urethane).
Cellulose vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 • —
smaller lots, works lb. .72 • .80
vis. 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .63 • .70
smaller lots, works lb. .67 • .81
Chloride, tech., cyl., works lb. .20 • .22
dms., works lb. .18 • .20
tanks, works lb. .10 • —
Cinnamate, cns lb. 3.25 • 3.45
Ether, absolute, ACS, dms lb. .27 • —
anesthesia USP hospitals, 1-lb cns lb. 1.01 • —
½-lb cns lb. 1.11 • —
¼-lb cns lb. 1.21 • —
indust., dms., c.l., dlvd lb. .12½ • —
l.c.l., dlvd. E lb. .13½ • —
tanks, dlvd E lb. .10 • —
Gallate, dms., 100 to 2,000-lb. lots oz. 3.90 • 4.40
Iodide, cbys., works lb. 3.30 • —
Methacrylate, dms., c.l., and less than truckload, works, frt equald lb. .51½ • .52
Morphine hydrochloride, USP, bots. oz. 11.85 • —
Nitrite (see Nitrous ether).
Oenanthate, dms. lb 1.00 1.50
Oleate, dms. l.c.l., works lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethyl ortho-silicate).
40% available SiO_2, dms., c.l., dlvd lb. .49½ • —
l.c.l., dlvd lb. .50½ • —
tanks, dlvd lb. .47 • —
Ethylethanolamines, mixed, dms., c.l., dlvd. E lb. .43½ • —
l.c.l. dlvd E lb. .44½ • —
tanks, dlvd. E lb. .41½ • —
N-Ethyl-a-naphthylamine dms., works, lb. 1.02 • —
N-Ethyl-o-toluidide, bbls lb. .85 • —
Ethylamine (see Mono, Di- or Tri-)
N-Ethylaniline dms. c.l., frt. alld. lb. .57 • —
l.c.l., frt. alld lb. .58 • —
tanks, frt. alld lb. .55 • —
Ethylbenzene, 99% dms., c.l., or t.l., frt. equald lb. .17 • —
l.c.l. same basis lb. .18 • —
tanks, same basis lb. .15 • —
Ethylene dichloride dms. c.l., dlvd. lb. .11½ • —
l.c.l., same basis lb. .12½ • —
tanks, same basis lb. .09 • —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Glycol, indust., dms., c.l., dlvd. E lb. .16 • —
l.c.l., same basis lb. .17 • —
tanks, same basis lb. .13½ • —
Monobutyl ether, dms., c.l., dlvd. E lb. .22 • —
l.c.l., dlvd E lb. .23 • —
tanks, dlvd. E lb. .19½ • —
Monoethyl ether, dms., c.l., dlvd. E lb. .21 • —
l.c.l., dlvd. E lb. .22 • —
tanks, dlvd E lb. .18½ • —
acetate, dms., c.l., dlvd., E lb. .19½ • —
l.c.l., dlvd E lb. .20½ • —
tanks, dlvd. E lb. .17 • —
Monomethyl ether, dms., c.l., dlvd. E lb. .21 • —
l.c.l., dlvd. E lb. .22 • —
tanks, dlvd. E lb. .18½ • —
acetate, dms., c.l., dlvd., E lb. .29 • —
l.c.l., dlvd. E lb. .29¾ • —
tanks, dlvd E lb. .27 • —
Monostearate, triple pressed, dms lb. .33 • .35
Oxide, dms., c.l., dlvd. E lb. .21½ • —
l.c.l. dlvd. E lb. .24½ • —
tanks, dlvd. E lb. .15½ • —
Trichloride (see Trichloroethane).
Ethylenediamine, 85-88%, dms., c.l., dlvd E, 100% basis lb. .46 • —
l.c.l. dlvd E., 100% basis lb. .47 • —
tanks, dlvd. E., 100% basis lb. .44 • —
Ethylvanillin, cns., 25-lb. lots lb. 6.20 • 6.25
Eucalyp'ol, USP, cns., dms lb. 1.25 • 1.50
Eugenol, USP, bots lb. 2.25 • 2.60
Euphorbia herb, bls lb. .15 • .17

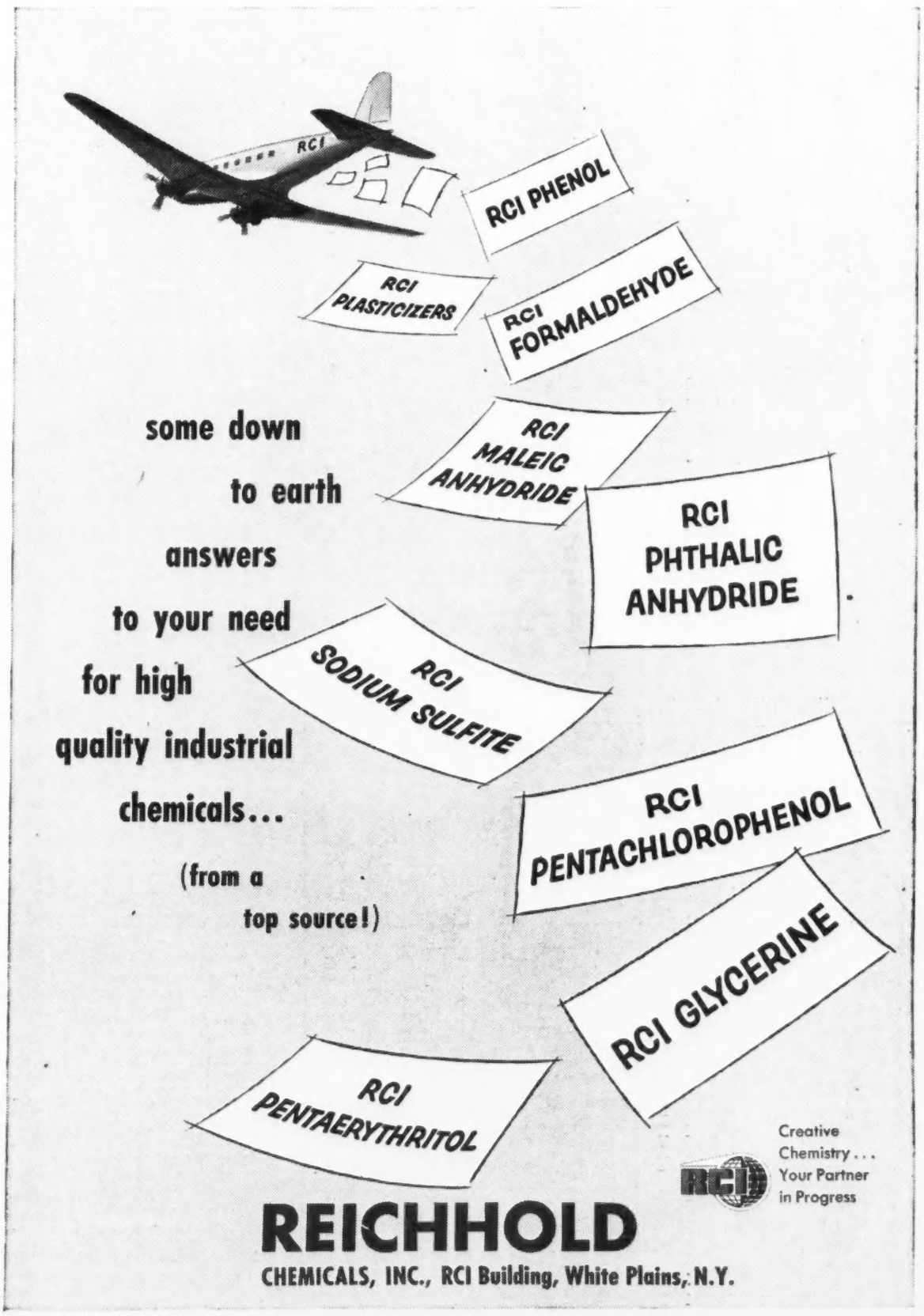
F

Feldspar, 140-200 mesh, bulk, c.l., works ton. 18.50 • —
Feldspar in bags $3 per ton higher
Fennel seed, Argentine, bgs lb. .14 • —
Czech, medium, bgs lb. .09 • —
Indian, light, bgs lb. .15½ • —
Roumanian, bgs lb. .09 • —
Fenugreek seed, Indian, bgs lb. .08½ • .09
Moroccan, bgs lb. .08½ • .09
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 • —
l.c.l., works lb. .09¾ • —
soln., USP IX, cbys lb. .16 • —
djns. lb. .17 • —
Cacaodylate NF, bots lb. 13.00 • 14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 7.00 • —
l.c.l., works 100 lbs. 7.85 • —
indust., cryst., bbls., c.l., works. 100 lbs. 5.25 • 6.75
l.c.l., works 100 lbs. 5.75 • 7.25
42° Be, photo grade, cbys., c.l., works 100 lbs. 7.25 • 8.25
sewage grade, tanks, frt. equald, 100% basis. 100 lbs. 3.50 • —
USP cryst. dms. works lb. .07¼ • .09
Citrate, gran., dms lb. .86 • —
Hypophosphite, NF dms lb. 3.45 • —
Naphthenate, liq., 6% Fe, dms., frt. alld lb. .25¾ • —
Oxalate gran. dms lb. .85 • .87
Oxides (see oxides under Black, Brown, Red, and Yellow.)
Phosphate, NF, soluble, gran., pearls cs lb. .64 • .65
Pyrophosphate, NF VII, soluble, powd., gran., pearls, dms., 10,000 lb. lots lb. .40½ • —
Resinate, 6¾% Fe, dms., frt. alld. lb. .29½ • —
Stearate, dms. c.l., frt. alld lb. .37 • —
l.c.l., frt. alld lb. .38 • .43
Sulfate, partially hydrated, bgs., c.l., works ton. 31.75 • 33.75
l.c.l., works ton. 34.75 • 40.75
lb. .37 • —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms lb. .60 • .63
green, pearls, USP XII, gran., dms lb. .60 • .63
Oxalate, fine gran., dms lb. .25½ • .28½
Ferric-potassium oxalate, fine gran., dms lb. .30½ • .33⅓
Ferric-sodium oxalate, fine gran., dms lb. .25½ • .28½
Ferrous gluconate, NF, dms lb. .94 • —
Sulfate, gran., bgs., c.l., works. ton. 34.50 • —
l.c.l., dlvd. Metropolitan area 100 lbs. 3.35 • 4.25
bbls., c.l., works ton. 40.00 • —
bulk, c.l., works ton. 27.00 • —
USP, cryst., bbls., dms lb. .09½ • .10
Fir, balsam, Canada, cns gal. 32.00 • —
Oregon, bbls gal. 4.50 • —
Fishliver oil (see Oil fishliver).
Fishmeal, dom., menhaden, 60% protein grd., bgs., Chesapeake Bay area ton. 136.00 • —
scrap, same basis ton. 131.00 • —
Fleaseed (see Psyllium seed)
Formaldehyde, USP, 37% (inhibited), methanol, Zone 1, dms., c.l., dlvd lb. .07 • —
l.c.l., works lb. .0745 • .075
tanks, dlvd lb. .042 • —
Zone 2, 12-15%, methanol, dms. c.l., dlvd lb. .0735 • —
tanks, dlvd lb. .045 • —
methanol-free (uninhibited), Zone 1, tanks, dlvd lb. .0395 • —
Zone 2, tanks, dlvd lb. .042 • —
Fringetree bark, bls lb .60 • .61
Fullers' earth, bgs., c.l., Ill. mines, ton. 19.00 • —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton. 17.50 • —
calcined, bgs., c.l., same basis ton. 20.00 • 21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton. 16.30 • 17.00
200-mesh, bgs. c.l., same basis ton. 17.50 • 18.00
spent, bgs., c.l., shipt. point ton. 4.50 • 5.00

Furfural, dms., c.l., works lb. .13 • —
l.c.l., works lb. .14 • —
tanks, dlvd E lb. .12 • —
dlvd. W lb. .13 • —
Fusel oil, refd., dms., c.l., dlvd lb. .18 • —
l.c.l., dlvd lb. .19 • —
tanks, dlvd lb. .15½ • —
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½ • —
No 2 bbls. l.c.l lb. .45½ • —
No. 3, bbls., l.c.l lb. .43½ • —
liq., No. 1, bbls., l.c.l lb. .22½ • —
No 2, bbls., l.c.l lb 21½ • —
No 3, bbls., l.c.l lb. 19 • —
solid No. 1, bxs., l.c.l lb. .45 • —

G

G salt, bbls., frt alld, 100% basis lb .73 • —
Gammapicoline (see g-Picoline)
Gelatin edible, pure (pork skin), 75 Bloom test, bbls., c.l lb. .53 • —
150 Bloom test, bbl., c.l lb. .64 • —
200 Bloom test, bbls., c.l lb. .70 • —
225 Bloom test, bbls., c.l lb. .73 • —
275 Bloom test, bbl., c.l lb. .81 • —
Gelsemium root, bls lb. .26 • —
Gentian root, bls. lb. .23 • —
grd., bbls., bxs lb. .27 • —
powd., bbls., bxs lb. .27 • —
Geraniol, extra, cns., dms. lb. 3.95 • —
standard, cns., dms. lb. 3.75 • —
Geranyl acetate, cns. lb. 3.95 • —
Ginger oleoresin, NF from African root, bots lb 4.00 • 7.75
from Jamaican root, bots lb 6.00 • 10.25
Root, African, bls. lb. .33 • —
Cochin, bgs. lb. .29 • —
Jamaican, No. 2 bgs lb. .78 • —
No. 3 bgs. lb. .75 • —
Nigerian, split, bgs. lb. .28 • —
Glauber's salt anhyd (see Sodium sulfate)
Glue, bone, extracted, dry bone, 86 jellygrams bgs., c.l., dlvd lb. 15 • —
104 jellygrams same basis lb 17 • —
131 jellygrams, same basis lb 18 • —
164 jellygrams same basis lb 20½ • —
191 jellygrams same basis lb 21 • —
222 jellygrams same basis lb 22 • —
12 green 40 jellygrams, bgs., c.l., dlvd lb. 13½ • —
65 jellygrams same basis lb. 13¾ • —
86 jellygrams same basis lb. 14 • —
115 jellygrams same basis lb. 14½ • —
135 jellygrams, same basis lb. 15 • —
164 jellygrams same basis lb. 16 • —
180 jellygrams, same basis lb 17 • —
200 jellygrams, same basis lb 18½ • —
Bone glue, l.c.l prices 1c higher
Hide, 70-94 jellygrams, bgs., c.l., dlvd lb. 15 • —
95-121 bgs., c.l., dlvd lb 16 • —
122-149 bgs., c.l., dlvd lb 18 • —
150-177, bgs., c.l., dlvd lb 20 • —
178-206, bgs., c.l., dlvd lb 22 • —
207-236, bgs., c.l., dlvd lb 24 • —
237-266, bgs., c.l., dlvd lb 26 • —
267-298, bgs., c.l., dlvd lb 28 • —
299-330 bgs., c.l., dlvd lb. 30 • —
331-362 bgs., c.l., dlvd lb. 32 • —



Glue, hide, 363-394 jellygrams, bgs., c.l., dlvd..lb. .34 • —
395-427, bgs., c.l., dlvd.....lb. .36 • —
428-460, bgs., c.l., dlvd.....lb. .38 • —
461-494, bgs., c.l., dlvd.....lb. .40 • —
495-529, bgs., c.l., dlvd.....lb. .41 • —
Hide glue l.c.l. prices 1c. higher.
l-Glutamine, bots. .....gram. .65 • —
Glycerine, nat., crude, saponification, 88%, to refineries, tanks...lb. .16½- —
soaplye, 80%, tanks.....lb. .15 • —
refd., CP, USP, 99%, dms., c.l., dlvd..lb. .29½- —
l.c.l., dlvd.....lb. .30 • —
tanks, dlvd.....lb. .28 • —
96%, dms., c.l., dlvd..lb. .28½- —
l.c.l., dlvd.....lb. .29 • —
tanks, dlvd.....lb. .27 • —
high gravity, dms., c.l., dlvd. lb. .29¼- —
l.c.l., dvld.....lb. .29¾- —
tanks, dlvd.....lb. .27¾- —
nat., refd., high gravity.....lb. .28½- —
l.c.l., dlvd. .....lb. .29 • —
syn., dms., c.l., dlvd .....lb. 29½- —
l.c.l., dlvd. .....lb. .30 • —
tanks, dlvd .....lb. .28 • —
Glycine (see Acid aminoacetic).
Glycerol (see Gylcerine).
Glyoxal, 30%, dms. c.l., works lb. .18½- —
l.c.l., works .....lb. .19¼- —
Golden seal root, NF, tested, bls. lb. 3.50 • —
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09¼
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. 29 - .31
Grease, white, choice, all hog tanks, dlvd..lb. .06¾- .06⅞
yellow, tanks, dlvd .....lb. .06⅝- .06⅞
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 • —
tungstated, PTMA kgs., works. lb. 6.40 • —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .40 • —
16-30%, bbls. same basis.lb. .40 • —
31-45%, bbls. same basis lb. .41 • —
45-49%, bbls. same basis lb. .44 • —
reduced color, 25%, bbls. same, basis..lb. .19 • —
Chrome green prices are ½c. higher, dlvd at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss. N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld.lb. 1.00 - 1.20
pure, bgs., c.l., frt. alld ....lb. .44¾- —
l.c.l., same basis .....lb. .45½- —
Dyes (see Dyes, coaltar)
Malachite, straight, PTMA, bbls., works lb. 4.60 • —
Paris (see Paris green).
Phthalocyanine toner, bbls., works, lb. 3.95 • —
resinated, bbls lb. 3.50 • —
water dispersable, bbls ..lb. 1.71 • —
Pigment B kegs .....lb. 1.35 • —
paste, kegs .....lb. .38 • —
Grindelia robusta herb, bls ....lb. .38 • .40
Guaiacol NF, cryst., dms., tins lb 2.10 - 2.15
liq., cbys., dms .....lb 2.30 - 2.40
Carbonate, NF VII, dms .....lb. 3.40 • 3.45
Gum, aloe (see Aloe).
Arabic, amber sorts, bgs.....lb. .23 • —
powd., USP, bbls.....lb. .28 • —
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .33 • —
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 • —
smaller lots, same basis lb. .57 • —
Copal, Congo, No. 1, bgs. ....lb. .22½- .25
No. 2, bgs. .....lb. .18½- .20
No. 3, bgs. .....lb. .15¼- .17
Manila C, bgs. .....lb. .37 • .40
CBB, bgs. .....lb. No stocks.
DBB, bgs. .....lb. .27¼- .31
DK, bgs .....lb. No stocks.
dust, bgs .....lb. .14 Nom.
MA, soft, bgs. .....lb. .19½- .22
WS, bgs. .....lb. No stocks.
Philippine, pale, chips, bgs. .lb. .21 - .24
nubs, bgs .....lb. .31 - .35
seeds, bgs .....lb. .20 - .22
sorts, bgs .....lb. .20½- —
Pontianak, chips, bgs. .....lb. .26 • —
nubs, bgs .....lb. .37¾- .40
Dammar, Batavia, A E, cs.....lb. No stocks.
dust, bgs .....lb. .16½- .17½
E, bgs .....lb. .20 • .22
East India, batu, bold, bgs. .lb. .13½- .15
nubs and chips, bgs ....lb. .08 • .09
black, bold, bgs .....lb. .14 • .16
unscraped, bgs. .....lb. .11¾- .13
nubs and chips, bgs ....lb. .11 • .13
pale, chips, bgs. .....lb. .12¾- .14
nubs, bgs .....lb. .17 • .19
Siam, cs. .....lb. .37 • .40
Singapore, No. 1, bgs. .....lb. .46¼- .48
No. 2, bgs. .....lb. .31¾- .33
No. 3, bgs .....lb. No stocks.
dust, bgs. .....lb. .16¾- .18
seeds bgs .....lb. .20 • .22
Ester, gum-rosin, type, dms., c.l., dlvd. Ill., Md., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W Va lb. .14½- .16
wood-rosin type, dms., c.l., same basis lb. .15 • .16
Guar, food grade, bgs., c.l. ....lb. .50 • —
tech. grade, bgs., c.l. ....lb. .40 • —
Karaya, No 1, NF, powd., bbls lb. .45 • —
No. 2, powd., bbls. .....lb. .45 • —
No. 3, powd., bbls .....lb. .40 • —
Locust bean, powd., bgs.....lb. .45 • —
Myrrh, cs. .....lb. .55 • —
Opium (see Opium).
Olibanum siftings, cs. .....lb. .15 • .20
tears, cs. .....lb. .22 • .30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs. lb. 3.90 • —
No. 2, cs .....lb. 3.20 • —
No. 3, cs. .....lb. 2.65 • —
powd., USP, bbls .....lb. 1.15 • —

Gypsum, plaster of paris, 100-lb. paper, bgs., trucks, dlvd. N. Y. C ton.20.30 • —
Terra alba, dom., paper bgs., same basis ..ton.20.00 • —
works, N. Y. C .....ton.17.00 • —
Imp., English, 100-lb. paper bgs., ex dock, N. Y. C ..ton.55.00 • —
ex warehouse .....ton.60.00 -62.00

H

Hawthorn berries, bgs.....lb. .21 • —
Hellotropin, 100-lb. lots, dms.....lb. 3.00 - 3.25
Hellebore root, dom., green, bls. lb. .70 - .75
Helonias root, bls.....lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 • —
No. 2, bbls., l.c.l.....lb. .43 • —
No. 3, bbls., l.c.l.....lb. .41 • —
No. 4, bbls., l.c.l.....lb. .39 • —
No 5, bbls., l.c.l.....lb. .37 • —
paste, No. 1, bbls., l.c.l.....lb. .20½- —
Henbane leaves, bls. .....lb. .35 • .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 • —
Baytown, Tex .....gal. .14¾- —
Borger, Tex .....gal. .14¾- —
Hesperidin, purif., 25 lb. lots, f.o.b., works lb. 8.95 • —
Methylchalcone, bots., 50-lb lots, works lb.22.50 • —
5-lb. lots, works.....lb.23.00 • —
1-lb. lots, works.....lb.23.50 • —
Hexachlorophene, dms.....lb 1.98 • —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 • —
1,000-19,999-lb. lots, same basis lb. .232 • —
smaller lots, same basis lb. .242 • —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 • —
smaller lots same basis lb. .242 • —
USP, dms., 500-lb. lots or more, smaller lots, same basis lb. .41½- —
Hexane, indust., tanks, Bayonne, N. J gal. .19 • —
Baytown, Tex .....gal. .15½- —
Borger, Tex .....gal. .15½- —
1-Hexanol, dms., c.l., works .....lb. .35 • —
l.c.l., works.....lb. .35¾- —
tanks, works .....lb .33 • —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
Salicylate, dms. .....lb. 1.75 • —
Hexylene glycol, dms., c.l., dlvd ..lb. .17 • —
l.c.l., dlvd.....lb. .18 • —
tanks, dlvd .....lb. .14½- —
a-Hexyl methacrylate, dms., less than truckload, works lb. .71 • —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb.14.00 • —
smaller lots, dlvd lb.44.50 • —
Homatropine hydrobromide, USP bots..oz. 5.50 • —
Methylbromide, USP, bots....oz. 3.90 • —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago.... unit-ton. 6.25 • —
Horehound herb, bls ..... lb. 16 • .19
Hydrastine, bots.....oz.28.75 -29.50
Hydrochloride, NF, bots.....oz.28.75 -29.50
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., works lb. No stocks.
Hydrate, 85%, ret. dms., works.lb. 1.35 - 1.55
100%, ret. dms., works .... lb. 1.60 - 1.90
Hydrocortisone acetate, bulk, bots., dms gram. 4.50 • —
Alcohol, bulk, bots., dms gram. 4.50 • —
Hydrofuramide, dms., fib. ctns., works lb. .30 • .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 • —
l.c.l., works .....lb. .55 • .60
Fluoride anhyd., cyls., dlvd. E. lb. .30½- .32½
dlvd. W .....lb. .39 • —
tanks, works .....lb. .21 • —
Peroxide, USP, bbls., dlvd.....lb. .03¾- .05
35%, dms., c.l., dlvd.....lb. .202 • —
l.c.l., dlvd.....lb. .211 • —
tanks, dlvd.....lb. .1800- —
Hydroquinone, pnoto grade, bbls., dms lb. .98 - 1.02
tech., dms., c.l., dlvd.....lb. .82½- —
l.c.l., dlvd.....lb. .84½- —
Hydroxycitronellal, cns.....lb. 6.00 - 7.45
Hyoscine salts (see Scopolamine).
Hydrobromide, bots.....oz. 6.00 - 7.00
Sulfate, bots.....oz. 6.75 - 7.25
Hypernic extract, cryst., No. 2, bbls., l.c.l lb. .52 • —
liq., No. 1, bbls., l.c.l.....lb. .35 • —
No. 2, bbls., l.c.l.....lb. .27 • —

I

Ichthammol, NF, jars.....lb. .75 - 2.57
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots .....lb.16.50 -21.00
Inositol, bots., dlvd.....lb. 5.00 • —
dms., dlvd .....lb. 4.50 • 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs .....lb. 1.42 • —
resub., USP, dms., jars.....lb. 2.30 • 2.32
Iodochlorohydroxyquinolin, USP, dms..lb. 5.90 • —
Iodoform, NF, dms., kgs.....lb. 4.90 • 5.00
a-Ionone, cns.....lb. 5.25 • 5.40
b-Ionone, cns.....lb. 5.40 • 5.70
Ipecac root, bgs., whole.....lb. 7.50 • —
powd., bbls., bxs.....lb. 7.85 • —
Irish moss, bleached, prime, bls lb. .20 • .34
Iron compounds (see Ferric or Ferrous). Oxides (see under Black, Brown, Red, and Yellow).
Isoborneol, cns.....lb. 1.25 • 1.70
Isobornyl acetate, cns.....lb. .46 • .70
Formate, dms.....lb. .80 • —
Propionate, dms.....lb. 1.15 • 1.45
Isobutyl acetate, perfume grade, cns lb. .75 • 1.00
solvent grade, dms., c.l., dlvd. E, of Rockies..lb. .14¾- —
l.c.l., same basis.....lb. .15¾- —
tanks, same basis .....lb. .12¼- —
Isobutyraldehyde, CP, dms., c.l., dlvd..lb. .27½- —
l.c.l., dlvd.....lb. .28½- —
tech., dms., c.l., dlvd.....lb. .21½- —
l.c.l., dlvd.....lb. .22½- —
tanks, dlvd.....lb. .19½- —
Isoeugenol, cns.....lb. 3.60 • 4.40
Isoniazid, powd., bulk, 25-kilo lots or more..kilo.23.00 -25.50
smaller lots.....kilo.24.00 -26.00
Isopentane, coml. grade, tanks, f.o.b. Tex, refy gal. .15½- —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works....lb. .24½- —
l.c.l., works.....lb. .25¼- —
tanks, works .....lb. .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .13½- —
l.c.l., same basis.....lb. .14½- —
tanks, same basis .....lb. .11 • —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd.....lb. .07 • —
l.c.l., dlvd.....lb. .08 • —
tanks, dlvd .....lb. .05 • —
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l., works lb. .70 • —
l.c.l., works .....lb. .714 - .814
Isopropylamine (see Mono. Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb. fib. dms., c.l., t.l., works. lb. .75 • —
l.c.l., works.....lb. .80 • .90
Isoquinoline, dms., works.....lb. .65 - 1.25

J

Jalap root, NF, bls.....lb. NP • —
powd., bbls., bxs.....lb. NP • —
Juniper berries, bgs.....lb. .18 • .20
Tar, NF, dms.....lb. .42 • .60

K

Kaolin (see also Clay China).
NF, powd., fib. dms.....lb. .10 • .12
colloidal, fib. dms.....lb. .15½- .17½
Kola nuts, bgs.....lb. .15 • —

L

Lactose, edible, fib. dms., 30,000-lb. lots, works lb. .15 • .15½
2,000-lb. lots, works .... lb. .15¾- .16½
200-1,800-lb. lots, works.... lb. .16¾- .17
Edible lactose in bgs. ½-1c. lower.
Fermentation grade, bgs., c.l., works lb. .08½- —
USP, fib. dms., 30,000-lb. lots, works lb. .21½- —
2,000-lb. lots, works .... lb. .22¼- —
200-1,800-lb. lots, works.... lb. .22¾- —
USP lactose in bgs 1c lower.
Lanolin, cosmetic, dms., works..lb. .27 • .29
USP, anhyd., dms., works.....lb. .25 • .27
hydrous, dms., works.....lb. .24 • .26
Lard, cash, dms., Chicago.....lb. .12⅜- —
Larkspur seed, bgs.....lb. .25 • —
n-Lauryl methacrylate, dms., c.l. or t.l., works lb. .63½- —
Lavender flowers, medium, bls lb. .75 • .80
ord., bls .....lb. .25 • .40
select., bls .....lb. .90 • —
Lead acetate, white, cryst., bbls lb. .23½- —
gran., bbls .....lb. .24½- —
powd. bbls .....lb. .24½- —
NF, cryst., gran., powd.....lb. .32½- —
Arsenate, acid powder, dealers, 3-lb. bgs. or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
l.c.l., frt. alld..... lb. .28½- —
1-lb. bgs., c.l..... lb. .41½- —
l.c.l. ..... lb. .42½- —
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld. lb. .17¼- —
l.c.l., same basis ..... lb. .18¼- —
Carbonate (see Lead, white, basic carbonate).
Chloride, dms .....lb. .45 • —
Iodide, NF, V jars.....lb. 3.82 • —
Linoleate, fused, 26%% Pb, dms. lb. .33 • —
Metal pigs, prime, N. Y .....lb. .15 • —
St Louis .....lb. .1580- —
Metallic paste, dms., 20,000-40,000-lb. lots, works.....lb. .33¾- —
10,000-20,000-lb. lots, same basis lb. .34¾- —
200-2,000-lb. lots, same basis. lb. .35¾- —
Prices ex whse, Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l., works.. frt. equald lb. .20 • —
l.c.l., same basis..... lb. .2075- —
Naphthenate, liq., 16% Pb, dms., dlvd lb. .17 • —
24% Pb., dms., dlvd ..... lb. .21 • —
solid, 37% Pb., dms., dlvd.... lb. .27½- —
Nitrate, bbls .....lb. .23¾- —
Orthosilicate-silica gel, 50-60% PbO, dms., works lb. .29¾- .34½
Peroxide, tech., powd., bbls....lb. .38¾- .40¼
Phthalate, dibasic, dms., works.lb. .41 • —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. alld. lb. .19 • —
l.c.l., same basis..... lb. .20 • —
97% Pb_3O_4, bbls., c.l., same basis. lb. .192 • —
l.c.l., same basis..... lb. .202 • —
98% Pb_3O_4, bbls., c.l., same basis. lb. .1935- —
l.c.l., same basis..... lb. .2035- —
Resinate, precip., 23% Pb, dms., dlvd lb. .32½- —
Salicylate, normal, dms., works. lb. .46 • —
Silicate (see Lead, white, basic, silicate).
Sulfate (see Lead, blue, basic sulfate, Lead, white, basic sulfate).
Tallate, liq., 16% Pb, dms.....lb. .15 • —
24% Pb., dms.....lb. .18½- —
solid, 30% .....lb. .23¼- —
White, basic carbonate, bgs., c.l., shipt. point, frt. alld. lb. .19 • —
l.c.l., same basis..... lb. .20 • —
silicate, bgs., c.l., shipt. point, frt. alld. lb. .17¼- —
l.c.l., same basis ..... lb. .18¼- —
sulfate, bgs., c.l., shipt. point, frt. alld. lb. .17¼- —
l.c.l., same basis .... lb. .18¼- —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works. lb. .15 • .17
l.c.l., same basis..... lb. .15½- .17½
unbleached, non-ret. dms., c.l., same basis..lb. .13 • .15
l.c.l., same basis..... lb. .14½- .16½
Lemon bioflavonoid complex, 25-lb. lots, works. lb. 9.00 • —
dl-Leucine, dms., works .....lb 12.25 -15.00
Licorice root, whole, bbls.....lb. .10 • .12
gran., bbls.....lb. .15 • .17
powd., bbls.....lb .12 • .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½- —
l.c.l., works .....lb. .06¾- —
Lime, chemical (quicklime), bulk, c.l., metropolitan N. Y. destination, freight equalized with nearest producing point ton.20.46 • —
Hydrated, bulk, c.l., same basis. ton.21.96 • —
Spray, bgs., c.l., same basis..ton.25.96 • —
Lime salts (see Calcium).
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).
Limestone grd., bgs., works ton. 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb. 3.65 • 4.80
ex lignaloe wood oil, dms..... lb. 5.30 • 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms lb. 3.30 • 3.10
96-98%, dms.....lb. 4.05 • 6.75
ex petitgrain, bots.....lb. 4.80 • 5.90
Lindane, 25% formulation, dealers, dms., frt. alld lb. 1.00 - 1.09
99% tech., formulators, dms., frt. alld lb. 2.65 - 3.25
Linden flowers with leaves, bls. lb. .25 • —
without leaves, bls.....lb. .30 • —
Linseed meal, expeller, 32-34% bulk, Midwest, mills..ton.60.50 -61.00
extracted, 36% bulk, same basis. ton.50.00 -50.50
Litharge, coml., powd., bbls., c.l., works, frt. equald..lb. .18 • —
l.c.l., same basis..... lb. .19 • —
Lithium benzoate, dms.....lb. 1.65 - 1.67
Bromide, NF, dms., works, frt. equald lb. 2.45 • —
Carbonate, NF, dms., c.l., t.l., dlvd.. lb. 1.29½- —
ton lots to t.l., dlvd.. lb. 1.30 • —
tech., dms., c.l., t.l., dlvd., frt. alld. works..... lb. .82 • —
l.c.l., same basis..... lb. .85 - 1.11¼
Chloride, CP, anhyd., ton lots..lb. 1.28½- —
tech., anhyd., dms., c.l., t.l., dlvd., or works, frt. alld. lb. 1.00 - 1.05
l.c.l., same basis..... lb. 1.05 - 1.05½
Citrate, NF, dms..... lb. 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd lb. 2.17½- —
ton lots, dlvd ..... lb. 2.18½- —
less ton lots, dlvd..... lb. 2.23½- —
Hydride powd., dms., 500-lots, works lb.10.50 -12.50
Hydroxide, monohydrate, dms., c.l., t.l., dlvd. or works, frt. alld lb. .80 - .80½
l.c.l., same basis..... lb. .81 - .81½
Manganite, dms., works .. lb. .95 - 1.15
Nitrate, tech., dms., 100-lb. lots. lb. 1.25 • —
Salicylate, dms. ..... lb. 1.60 - 1.70
Silicate, dms., works..... lb. 1.10 - 1.30
Stearate, dms., c.l. works....lb. .47½- —
ton lots, works .....lb. .48½- —
less-ton lots, works .....lb. .53½- —
Sulfate dms., 100-lb. lots.....lb. 1.15 • —
Titanate dms. works .... lb. 1.15 - 1.35
Lithopone, ord., bgs., c.l., dlvd. E. lb. .08 • —
l.c.l., dlvd. E..... lb. .08¾- —
Lobelia herb, bls..... lb. 1.50 • —
Lobeline sulfate, bots., works oz.37.50 -39.00
Logwood extract, cryst. No. 1, bbls., l.c.l lb. .41 • —
No. 2, bbls., l.c.l..... lb. .39 • —
liq., No. 1, bbls., l.c.l..... lb. .20 • —
No. 2, bbls., l.c.l ..... lb. .19 • —
No 3, bbls., l.c.l ..... lb. .18½- —
solid No 1, boxes, c.l..... lb. .35 • —
Lycopodium, cs ..... lb. 1.20 2.00
dl-Lysine hydrochloride, bots kilo.140.00 -150.00

M

Mace, Siauw siftings, bls .....lb. 2.50 - 2.80
West Indian, No. 1, bls, shipment lb. 3.00 • —
Magnesia, calcined, tech., bgs., ctns., works lb. .25¼- .26
syn, rubber grade, light, bgs., c.l., works lb. .29¼- —
extra light, bgs., c.l., works. lb. .29¼- .30
l.c.l., works..... lb. .30 • —
USP, light, ctns ..... lb. .35 • .36
heavy, bbls. ..... lb. .45 • .52
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton.82.50 • —
dead-burnt standard grain, bulk, c.l., Chawelah, Wash. ton.40.00 • —
Magnesium bromide hars ..... lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .10½- —
l.c.l., frt. equald ..... lb. .12 - .13
truckloads, frt. equald lb. .11 • —
USP, bgs., c.l., frt. equald lb. .12½- —
t.l., frt. equald ..... lb. .13 • —
l.c.l. frt equald ..... lb. .14 .15
Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.
Chloride, anhyd., 92% flake or pebble, dms., c.l., works.lb. .12¾- —
l.c.l., same basis lb. .14 .15
hydrous, 99% flake, bgs., c.l., works ton.53.00 • —
l.c.l., works.....ton.65.00 -80.00
Gluconate, dms., cns..... lb. 1.34 - 1.41
Hydroxide, NF, medicinal, bbls., dms., kgs lb. .26½- .30
Metal, 99.8% ingots, 10,000 lb. lots or more, works..lb. .36 • —
pigs, 10,000-lb. lots or more, works lb. .35¼- —
sticks, cs., works, frt. alld. on carlots lb. .59 • —
Oxide (see Magnesia, calcined).
Nitrate, cryst., dms., works .. lb. .20 • —
Peroxide, 15%, dms., works lb. 1.00 1.05
Phosphate, tribasic, NF, bbls..lb. .75 • —
Silicate (see Talc).
Silicofluoride, dms., works .... lb. .10½- .12
Sulfate, tech., bgs., c.l., works 100 lbs. 2.15 • —
l.c.l., works ..... 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 • —
l.c.l., 5,000 lbs., 1 withdrawal. 100 lbs. 3.10 • —
smaller lots.... 100 lbs. 3.35 • —
Trisilicate, USP, dms., 5,000-lb. lots..lb. .38 • —
1,000-lb. lots ..... lb. .40 • —
100-lb. lots..... lb. .45 • —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher
Malathion, dms., c.l., works.....lb. .90 • —
l.c.l., works..... lb. .92 - 1.02
Maleic anhydride, dms., c.l., dlvd. E lb. .27 • —
l.c.l., dlvd E ..... lb. .28 • —
tanks, dlvd. E ..... lb. .26 • —
Prices on maleic anhydride W. of Rockies, 1½c. higher.
Mandrake root bls ..... lb. .55 .60
Manganese acetate, bbls. dlvd lb. .35 • —
Arsenate, bgs ..... lb. .16 • —
Borate, tech., fib. dms..... lb. .25 • —
Carbonate, bbls., works lb. .22 • —
Chloride, anhyd., dms., works lb. .25½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works..ton.102.00 • —
paper bgs., works....ton.98.50 • —
dms., works .....ton.106.50 • —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.
Gluconate, dms .....lb. 1.80 - 1.94
Hydrate, bbls, dlvd ..... lb .36 • —
Hypophosphite, NF, dms .... lb 3.52 • —
Linoleate, liq., 4.35% Mp, dms lb. .32½- —
solid, precip, 8.2% Mn, bbls lb. .37½- —
Naphthenate, liq., 6% Mn., dms., frt. alld lb. .27 • —
Resinate, fused, 3½% Mn., dms. lb. .24 • —
precip., 6½-7% Mn, dms... lb. .28 • —

Manganese sulfate, fertilizer grade, 65%, sulfate, c.l., dlvd. S E. ton.88.55 - —
l.c.l., dlvd. S E ton.95.55 - —
Tallate 6%, dms lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton.66.00 - —
So. American 30% tannin, c.l., ex dock ton.55.00 -58.00
Mannitol, com'l, fib. dms., ton lots, works lb. .60 - —
dms. to ton lots, works lb .62 - —
single dm. works lb .65 - —
MBTS (see Mercaptobenzothiazyl disulfide).
MBT (see 2-Mercaptobenzothiazole)
Melamine, bgs., c.l., works lb. .30 - —
l.c.l., works lb. .31 - —
Menadione USP bots gram .044 .05
Menthol, nat., USP, Brazilian, cs lb 6.30 6.40
syn. USP racemic, cns lb 4.95 —
Menthyl salicylate tins lb 4.00 4.25
2-Mercaptobenzothiazole, bgs., fib. dms. ton-lots works, frt. alld lb. .42 - —
less ton lots, same basis lb. .44 - —
Mercaptobenzothiazyl disulfide, bgs., fib dms. ton lots works, frt. alld lb. .52 - —
less ton lots, same basis lb. .54 - —
Mercuric chloride NF, cryst., dms., 50-lb lots or more lb 4.98 - —
gran. or powd., dms., 50-lb. lots or more lb 4.78 - —
Cyanide, NF, VIII, powd., fib. dms. lb. 6.84 - —
Iodide red, NF fib dms lb 7.72 —
Oxide, red, NF, powd., fib dms lb. 5.97 6.01
yellow, tech (see Yellow mercury oxide)
USP fib dms lb 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb 7.72 - —
Mercury, ammoniated (see White precipitate USP)
Metal, 76 lb. per flask net-flask.255.00 -257.00
Mesityl oxide, dms., c.l., dlvd lb. .14½- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .12 - —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal. .75 - —
syn., Zone 1, dms. c.l. dlvd. or truckload min. frt alld. gal. .45 - —
l.c.l. same basis gal. .51 - —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .33 - —
4,000 gal. min., frt. alld. or dlvd gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J gal. .27½- —
Zone 2, dms. c.l., or truckload min. frt. alld or dlvd gal. .48 - —
l.c.l., same basis gal. .54 - —
tankwagon, 2,000-4,000-gal. lots, min. dlvd Metropolitan areas gal. .36 - —
tanks, 4,000 gal., min., frt. alld or dlvd gal. .33 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
dl-Methionine fib. dms., frt. alld. 50-lb. or more lb 3.50 - —
feed grade 98%, fib. dms., same basis lb 2.65 - —
Methoxychlor 50% wettable powder, dealers dms., cs., frt. alld lb. .61 - .64
Methyl acetate non-ret. dms., c.l., dlvd zone 1 lb .20½- —
t.c.l. same basis lb .21 —
hydrogenated, non-ret. dms., c.l., dlvd Zone 1 lb .21 - —
t.c.l. same basis lb .21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., t.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld. E gal. .63½- —
l.c.l., frt. alld. E lb. .69½- —
tanks, frt. alld. E gal. .48½- —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four

Acrylate, dms., c.l., t.l., dlvd lb. .39 - —
t.t.l. dlvd lb. .40 - —
tanks, dlvd lb. .37 - —
Alcohol (see Methanol).
Amyl acetate dms., c.l., dlvd. E. lb. .16 - —
t.c.l. dlvd E lb. .17 - —
tanks, dlvd. E lb. .13½- —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns lb. 2.35 - 2.65
Benzoate, cns., dms lb. .60 - .75
Bromide jobbers, cyls., various sizes, frt. alld. E lb. .47 - .61
Cellulose, special vis. (1,500-4,000 ops.) 50-lb. bgs., c.l., works lb. .78 - —
2,000-lb. lots and more, same basis lb. .65 - —
smaller lots, frt. alld. on 100 lbs. lb. .89 - 1.00
standard vis. (15,400 cps.), 50-lb. bgs., c.l., frt. alld. lb. .60 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs lb. .75 - .85
Chloride, indust., cyls., frt. equald. lb. .22 - —
tanks, multi-unit, same basis. lb. .15¾- —
single unit, same basis lb. .12 - —
refrigerator mfrs., cyls., dlvd. lb. .46 - .48
other consumers or service men, cyls., dlvd lb. .67 - —
Chloroform (see 1,1,1-trichloroethane).
Cinnamate, cns lb. 1.55 - 1.80
Cyclohexanol, dms., c.l., works lb. .35½- —
t.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. lb. .14½- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .12 - —
Formate, refd., dms lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .10 - —
Heptin carbonate, bots lb. 31.00 -42.00
p-Hydroxybenzoate fib dms lb. 1.90 2.00
Ionone, standard, cns., dms. lb. 5.00 - 5.25
Isobutyl carbinol, dms., c.l., dlvd. lb. .16½- —
l.c.l., dlvd lb. .17½- —
tanks, dlvd lb. .14 - —
Ketone, dms., c.l., dlvd lb. .16½- —
l.c.l., dlvd lb. .17½- —
tanks, dlvd lb. .14 - —

Methyl methacrylate, dms., c.l., t.l., frt. equald. with Melle, W. Va lb. .31 - —
smaller lots, same basis lb. .31½- —
tanks, same basis lb. .29 - —
Naphthyl ketone, cryst., cns lb. 3.00 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate)
Roseaniline chloride, NF, fib. dms., 5-lb. lots lb. 5.64 - —
Salicylate USP cns., 500-lb lots lb. .59 - —
Testosterone USP 100-gram bots. gram .68 - —
2-Methylbenzylamine dms., l.c.l., works lb 1.25 - —
2-Methylbenzyl dimethylamine, dms., c.l., works lb 1.89 - —
l.c.l. works lb 1.90 - —
2-Methyl-5-ethyl pyridine dms., cs., works lb. .445 - —
l.c.l., works lb. .45 - —
tanks, works lb. .43 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - 3.60
smaller lots, same basis lb. 3.40 - 3.55
Chloride, tech., dms., c.l., dlvd. E. lb. .13¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .11¾- —
b-Methylnaphthalene, 32°C. m.p., dms., works lb. .90 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb .03 - —
wet-grd., biotite, bgs., c.l., works, frt alld E lb. .06½- —
l.c.l., ex-whse lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld. E lb. .08¼- —
l.c.l. ex-whse or frt. alld. E lb. .09 - —

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Mica, wet-grd., rubber, bgs., c.l., works, frt. alld. E ... lb. .08 - —
l.c.l., ex-whse. or frt. alld. E lb. .08¾ - —
wallpaper, bgs., c.l., works, frt. alld., E lb. .08¼ - —
l.c.l., ex-whse or frt. alld. E lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt. alld. E ... lb. .08¼ - —
l.c.l. ex-whse or frt. alld. E lb. .09 - —
Mica, wet-grd. W of Miss. ½c. higher; W of Rockies, 1c. higher
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .20 - .23
New York ..... gal. .20 - —
Molybdenum (metal), powd., 99 or 200 mesh, ctns., works kilo. 7.84 - —
325 mesh, ctns., works . kilo. 9.13 - —
Trioxide, pure, dms., works . lb. 1.15 - —
tech., dms., works, basis Mo. content lb. 1.39 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55½ - —
l.c.l., same basis ..... lb. .56½ - —
tanks, same basis ..... lb. .53 - —
Monochlorobenzene, dms., c.l., frt. alld or dlvd. E lb. .10 - —
l.c.l., same basis ..... lb. .11 - —
tanks, same basis ..... lb. .08½ - —
Monoethanolamine, dms., c.l., dlvd. E lb. .27½ - —
l.c.l., same basis ..... lb. .28½ - —
tanks, same basis ..... lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E lb. .37½ - —
l.c.l., dlvd E ..... lb. .38½ - —
tanks, dlvd E ..... lb. .35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidin (see N-Ethyl-o-toluidine).
Monoisopropanolamine dms., c.l., dlvd. E lb. .27½ - —
l.c.l., same basis ..... lb. .28½ - —
tanks, same basis ..... lb. .25 - —
Monoisopropylamine dms., c.l., dlvd. lb. .32½ - —
l.c.l., same basis ..... lb. .33½ - —
tanks, same basis ..... lb. 30 - —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald, 100% basis. lb. 40 - —
l.c.l., frt. equald 100% basis. lb. 40½ - —
tanks, frt. equald 100% basis. lb. .31 - —
40% soln., dms., c.l., frt. equald, 100% basis lb. .37 - —
l.c.l., frt. equald, 100% basis. lb. .37½ - —
tanks, frt. equald, 100% basis. lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m cresol)
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Morphine, cns ..... oz 12.40 -12.60
Acetate, anhyd., cns ..... oz 9.95 10.00
Hydrobromide, cns ..... oz 9.90 9.95
Hydrochloride, NF cns ..... oz 9.90 9.95
Sulfate USP cns ..... oz 9.90 10.05
Morpholine, dms., c.l. dlvd E .. lb. .55¼ - —
l.c.l., dlvd E ..... lb. .56¼ - —
tanks, dlvd E ..... lb. 52¾ - —
Musk, syn., ambrette 100-lb tots, fib. dms lb. 4.45 5.15
25-lb. lots cns ..... lb 5.05 5.65
5-lb. lots, cns ..... lb 5.20 5.50
ketone, 100-lb. lots, fib. dms lb 4.70 5.20
25-lb lots cns lb 5.35 —
5-lb lots, cns lb. 5.45 - —
xylol, 100-lb lots, fib dms lb. 1.40 - —
25-lb lots, cns lb. 1.45 - —
5 lb lots, cns lb. 1.50 - —
Mustard seed, Danish, yellow, bgs lb .10½ - —
Dutch, bgs. ..... lb. .10½ - —
English, yellow, bgs. ..... lb. .11 - —
Montana, oriental, bgs .... lb. .08½ Nom.
Yellow, bgs ..... lb. .10½ - —
Myrobalans, J-1, genuine, bgs., ex-dock ton.63.00 -64.00
crushed, bgs., ex dock ... ton 79.00 -80.00
Bombay, bgs., ex dock ..... ton.61.00 -62.00
Extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty lb. .10 - .10¼

N

Naphtha, painters (see Petroleum naphtha V M & P.).
Solvent (see S)
Naphthalene crude dom., 74°, tanks, frt equald lb. 06¼ —
78° bgs. c.l., same basis lb .07½ .08
l.c.l. same basis lb. .07¾ - .08¼
tanks same basis lb. 07 —
imp., 73° bgs., large lots lb. .05 Nom.
refd., indust., chipped, crushed, bgs., frt. equald lb. .12½ - —
tanks, same basis lb. .11¾ - —
balls, flakes, wholesalers, jobbers, bbls. c.l. same basis. lb. .15½ - —
cs. 50 lbs. c.l. same basis lb. .15¾ - —
1-lb pkgs., c.l., same basis lb. .18½ —
a-Naphthol bbls. frt. alld lb. 1.00 —
b-Naphthol, tech., flake, bbls., c.l., works lb. .33 - —
l.c.l., works ..... lb .35 - —
Benzoate, fib dms., works ... lb 3.00 - —
custom contract, works ... lb 1.65 - —
Salicylate dms ... lb 5.00 - —
Sulfate cns lb 35.00 - —
a-Naphthylamine bbls. frt alld lb 50 —
b-Naphthylamine tech. flake, bbls., works lb. 1.60 —
Neocinchophen USP dms., frt. adjusted lb. 7.00 8.00
Neomycin, fib. dms., 5 kilo lots, basis, activity gram .45 —
100-999 gram lots, basis, activity, gram. .55 - —
Nerolin, cns ..... lb. 2.45 2.65
Niacinamide (see Nicotinamide).
Nickel acetate, bbls. dlvd ... lb .77 .90½
Carbonate bbls. dlvd ..... lb. 73¾ 81¾
Chloride, bbls., dlvd ..... lb .38½ 46½
Formate, bbls., ton lots, frt. alld lb. .68 .69
Metal, electro cathodes, cs., works lb. .64½ - —
Nitrate, bbls., works ..... lb. .37 .38
Oxide, black, bbls ..... lb. 76 —
green bbls. ..... lb. 76 —
Sulfate, bgs., c.l., dlvd ..... lb .30¼ - —
l.c.l. dlvd ..... lb. .31¼ .33¼
Nicotinamide USP, dms., frt. adjusted kilo 12.00 -12.30
Hydrochloride dms. frt adjusted kilo 11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld .. lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld lb. 1.05 - —
Niger seed, bgs ..... lb. .12 - .12½
Nikethamide, chys ..... lb. 7.50 —
m-Nitroaniline, cryst, dms. frt. alld. lb. 1.15 - —
paste, dms., frt. alld., 100% basis. lb. 1.10 - —
o-Nitroaniline, flaked, dms., t.l., frt. alld lb. .49 - —
l.t.l., frt. alld ..... lb. .51 - —
p-Nitroaniline, dms., frt. alld lb. 445 —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .14 - —
l.c.l., frt. alld ..... lb. .15 - —
tanks, frt. alld ..... lb. .12 - —
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
l.c.l., same basis .... lb. .35 - .37
18-25 cps. bbls., c.l., same basis lb. .36 —
l.c.l. same basis ... lb. .37 - .39
250-400, 600-1,000 secs., bbls., c.l., same basis lb. .39 - —
l.c.l., same bassi .... lb. .40 - .42
spirit-soluble, 30-35 cps., ¼, ½ secs., bbls., c.l., same basis lb. .41 - —
l.c.l., same basis ... lb. .42 - .44
5-6 cps., 40-60 secs, bbls., c.l., same basis lb. .40 - —
l.c.l., same basis .... lb. .41 - .43
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
o-Nitrochlorobenzene, dms. c.l., frt. alld lb. .15 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .13 - —
p-Nitrochlorobenzene, dms ..... lb. .26 .27
2-Nitro-4-chlorophenol dms ..... lb. .75 —
Nitroethane, dms., c.l., dlvd. E lb. .24 —
l.c.l., dlvd. E ..... lb. .24¾ - —
tanks, dlvd. E ..... lb. .22½ - —
Nitroethane prices West of Rockies are 1c. higher.
Nitrogen solutions, tanks, frt. equald, unit-ton. 1.10 - —
Nitrogeneous process tankage, bulk, works unit-ton. 3.00 - 4.00
Sewage sludge, bulk, works, unit-ton. 2.95 - .50
Nitromethane, dms., c.l., dlvd. E lb. .24 - —
l.c.l., dlvd. E ..... lb. .24¾ - —
tanks dlvd. E ..... lb. .22½ - —
Nitromethane prices West of Rockies are 1c. higher.
a-Nitronaphthalene, bbls., frt. alld. lb. .41 - —
Nitropropane-1, and -2, dms., c.l., dlvd. E lb. .22½ - —
l.c.l., dlvd. E ..... lb. .23¼ - —
tanks, dlvd. E ..... lb. .21 - —
Nitropropane prices West of Rockies are 1c. higher.
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., frt. alld., c.l. lb. .51 - —
l.c.l., ... lb. 53 - —
o-Nitrotoluene, dms., c.l., frt. alld lb. .10 - —
l.c.l. frt. alld ..... lb. .11 - —
tanks, frt. alld ..... lb. .09 - —
m-Nitro-p-toluidine, dms ..... lb. 1.59 - —
Nitrous ether, conc., pots 100-lb. lots lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26½ - —
l.c.l., frt. alld ..... lb. .27½ - —
tanks, frt. alld ..... lb .24½ - —
Nutgalls, Aleppo, bgs ..... lb. .36 - .38
Chinese, bgs. ..... lb. No prices.
Nutmeg, East Indian, bgs ..... lb. .92 - —
West Indian, bgs ..... lb. .91 - —
Nux vomica, bls ..... lb. .10 - .12
powd., bbls., bxs ..... lb. .15 - .17

O

Octane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex ..... gal. .15¾ - —
Borger, Tex ..... gal. .15¾ - —
1-Octanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l. dlvd ..... lb. .37 - —
tanks, dlvd ..... lb. .32½ - —

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Try it as a secondary plasticizer with polyvinyl chloride resins.

As a primary plasticizer extender, the advantages of Conoco H-300 merit the consideration of all quality-minded and cost-conscious formulators using polyvinyl chloride resins. Some of these are:

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Tests prove that films containing Conoco H-300 show light resistance equal to, or better than, those with no extenders—a unique contribution in the field of secondary plasticizers.

UNUSUAL LOW TEMPERATURE FLEXIBILITY

Marked improvement in low temperature flexibility is shown in films made with Conoco H-300.

SUPERIOR VISCOSITY CONTROL

Mixtures containing Conoco H-300 have appreciably lower initial and aged viscosities.

ECONOMY

Can save the processor as much as 2 cents per pound on the finished product. Conoco H-300 can be used to the extent of 25% of the total plasticizer required.

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Petrochemical know-how from the ground up!

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CONTINENTAL OIL COMPANY

Octyl phenol, bgs., c.l., works . lb. .24 - —
l.c.l., works ..... lb. .24½- —
tanks, works ..... lb. .23 - —
Drum prices for octyl phenol are 1½c higher

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity quality or in individual suppliers. views.)

Oil, ables, siberica, cns ..... lb. 3.05 - 3.35
Almond artif. bitter (see Benzaldehyde).
nat. bitter, F.P.A. bots ... lb 3.00 3.75
NF bots. ... lb 3.25 3.75
sweet, USP, cns. dms ..... lb. 1.25 - —
Allspice (see Oil, pimento).
Amyris, dms. ..... lb 1.25 - —
Angelica root, bots ..... lb.66.00 -100.00
seed bots lb.56.00 95.00
Aniline (see A).
Anise, USP dms ..... lb. 3.50 - 4.00
Apricot kernel, USP dms .... lb. .48 - .65
Avocado cns ..... lb 3.25 - —
Bay, NF Puerto Rican, 50-55%, cns lb. 2.15 - 3.00
55-60%, cns ..... lb. 2.50 - 3.00
West Indian 50-55% cns., dms., lb 1.85 2.40
Bergamot nat. NF Italian, cns. lb. 9.75 -11.00
Birchtar crude cns ..... lb 1.50 - 1.90
rectified NF cns ..... lb. 1.73 - —
Bois de rose, Brazil, dms. ..... lb. 3.35 - —
Mexican (see Oil, lignaloe wood).
Bone dms. works ..... lb 65 70
Cajeput, native, cns. ..... lb. 1.75 - 3.30
redist USP. cns ..... lb 2.25 3.40
Calamus bots ..... lb.12.00 -20.00
Camphor, sassafrassy, dms. ..... lb .30 - .43
white dms ..... lb 29 - —
Cananga, native, cns ..... lb. 8.50 - 8.75
rectified cns ..... lb.10.00 -13.00
Caraway, NF, cns ..... lb 3.50 - —
Capsicum (see Capsicum oleoreson.
Cardamom, NF, bots ..... lb.38.00 -40.50
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l ..... lb. .2500- —
l.c.l. ..... lb. .2600- —
dehydrated, bodied, dms., c.l lb. .2610- —
l.c.l. ..... lb. .2710- —
tanks ..... lb. .2410- —
unbodied, dms., c.l ..... lb. .2460- —
l.c.l. ..... lb. .2560- —
tanks ..... lb. .2260- —
hydrogenated, bgs., c.l., dlvd lb. .25¾- —
l.c.l., dlvd. ..... lb. .31¾- —
No. 3, tech., dms., c.l ..... lb. .19¼- —
l.c.l. ..... lb. .20¼- —
tanks ..... lb. .17¼- .17½
No. 1, Brazilian, tanks ..... lb. .18¼- .18⅝
USP, dms., c.l. ..... lb. .23 - —
l.c.l. ..... lb. .24 - —
tanks ..... lb. .21 - —
refd. and deodorized, dms., c.l lb. — - —
l.c.l. ..... lb. .28½- —
tanks ..... lb. — - —
sulfonated, 30%, dms., works. lb. .13½- .14½
75% dms., works ..... lb. .17½- .18½
Cedarleaf, USP, XIII, cns., dms. lb. 3.50 - 3.90
Cedarwood, cns, dms ..... lb. .75 - 1.00
Celery seed, bots. ..... lb. 8.00 -20.00
Chamomile blue, Hungarian, bots. lb.190.00-195.00
Chenopodium, NF, cns. ..... lb. 3.80 - —
Chinawood (see Oil, tung).
Cinnamon bark, bots ..... lb.36.00 -70.00
leaf, crude, dms ..... lb. 1.60 - 2.00
USP cns., dms. (Cassia) ... lb.10.25 -10.90
Citronella, Ceylon, cns., dms. lb. .86 - —
Java, cns ..... lb. 1.95 - —
Java-type, cns. ..... lb. 1.25 - —
Clove, bud, USP, cns., dms. ..... lb. 2.65 - 2.90
leaf, crude, dms ..... lb 1.20 - 1.50
Coconut, crude, tanks, N. Y. lb. .12 - —
Pac. coast ..... lb. .10¾- —
refd. Cochin type dms. tax incl., lb. .19 - .19⅛
deodorized, tax incl., dms lb. .22 - .23
Cod, Newfoundland, dms ..... lb. .11½- .11¾
Codliver USP dms ..... gal. 1.45 - 1.55
Copaiba, cns. ..... lb. 1.75 - 2.50
Coriander, USP bots. ..... lb.11.75 - —
Corn, crude, tanks, works ..... lb. .14 - .14¼
foots (soapstock), acid 95%, tanks, N. Y. lb. .05⅜- —
refd., salad, dms ..... lb. .1960- .1975
tanks ..... lb. .1760- —
Costus, bots. ..... oz. 8.00 - —
Cottonseed, crude, tanks South East. lb. .13½ Nom.
Valley ..... lb. .13⅜ Nom.
Texas, Lubbock ..... lb. .13⅜ Nom.
Waco ..... lb. .13¾ Nom.
foots (soapstock), acid 95%, tanks, N. Y. lb. .04⅜- —
refd., salad, dms ..... lb. .19 - .19½
tanks ..... lb. .17 - —
Creosote (see Creosote, coaltar).
Cubeb, cns. ..... lb. 4.10 - 4.25
Cumin, bots., cns ..... lb. 4.75 - 5.00
Cypress, bots ..... lb. 5.30 - —
Degras (see D).
Dillseed, bots ..... lb. 2.80 - 4.25
Dillweed, dom., bots., dms .... lb. 3.25 - 4.25
Dip (see D).
Erigeron cns ..... lb 5.50 - 7.50
Eucalyptus, NF, rect., 70-80% dms. lb. .62 - —
80-90%, dms. ..... lb. 72 - —
Fennel, sweet, USP cns ..... lb. 2.80 - —
Fir, canada cns ..... lb. 2.75 3.25
Fish, refd., alkali, dms ..... lb. .1400- .1450
kettle-bodied, dms ..... lb. .1630- .1680
light-pressed, dms ..... lb. .1250- .1300
tanks ..... lb. .1100- —
Fishliver, crude for feeds or concentrating 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms. 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units. .10½- .11
100,000 A units per gram., dms 1,000,000 units. .14 - —
200,000 A units per gram., dms 1,000,000 units. .15½- —
500,000 A units per gram., dms. 1,000,000 units. .16 - —

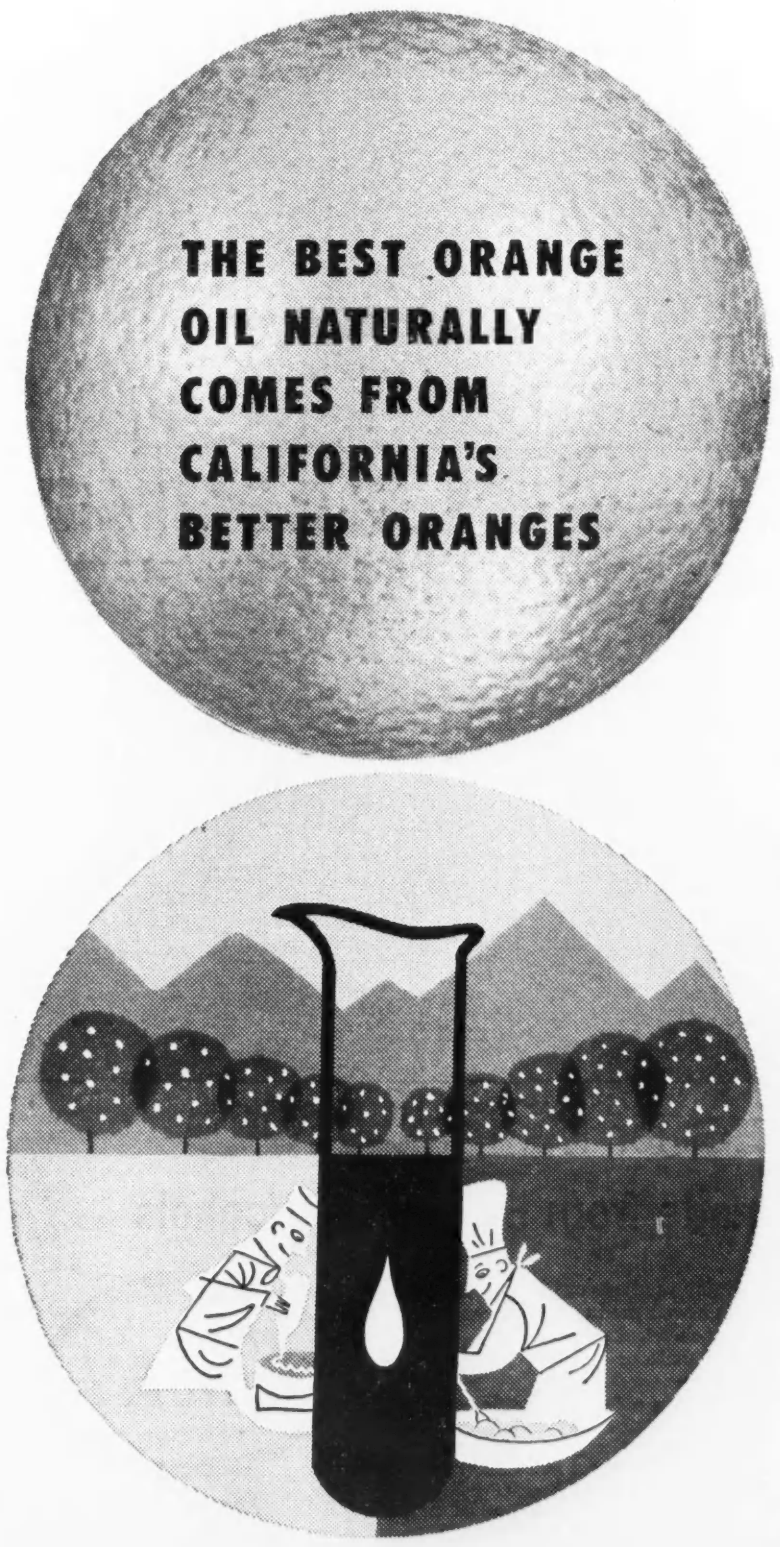
Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots ..... oz. 4.50 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns ..... lb.13.50 -14.50
Bourbon, cns. ..... lb.13.75 - —
Turkish (see Oil palmarosa).
Ginger, dist., bots ..... lb.18.50 -19.50
Grapefruit, dms ..... lb. 1.70 3.25
Grease, No. 1, dms., c.l ..... lb. .15¼- —
l.c.l. ..... lb. .16¼- .18¼
extra, winter, strained, dms., c.l. lb. .17¼- —
prime, burning, dms, c.l ..... lb. .18¾- —
l.c.l. ..... lb. .19¾- .21¼
Guaiacwood, cns. ..... lb. 1.60 - —
Hemlock, cns ..... lb 2.10 2.50
Juniper berry, NF, VIII, bots. lb. 2.75 - 4.00
twice rectified, bots ..... lb 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns. ..... lb. .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms., cns ..... lb 9.75 -12.50
Lavandin, dms., cns ..... lb. 2.55 - 2.95

Oil, lavender, flower, USP, French 35-37% ester, cns ..... lb. 2.85 - 4.60
38-40% ester, cns ..... lb. 9.25 -10.00
40-42% ester, cns ..... lb.10.00 -14.00
spike, Spanish, cns ..... lb. 2.05 - 2.60
Lemon, USP, Calif., cns., dms. lb. 4.25 - 5.00
Messina, cns. ..... lb. 5.75 - —
terpeneless, bots. ..... lb.50.00 -85.00
Lemongrass, cns., dms. ..... lb. 1.65 - —
Lime, dist., Mexican, cns ..... lb. 4.00 - —
West Indian, cns ..... lb. 4.00 - —
expressed, West Indian, cns lb 6.00 8.00
terpeneless, bots. ..... lb.30.00 -85.00
Lignaloe wood, Mex., cns ..... lb. 4.65 - —
Linseed, raw, dms., c.l., N. Y. lb. .1670- —
l.c.l. ..... lb. .1770- .18
tanks (f.o.b. Minneapolis) .... lb. .1340- —
New York ..... lb. .1470- —
tankwagon, New York .... lb. .1500- .1510
Boiled linseed oil .006c per lb. higher
Mace, dist., cns., dms ..... lb. 5.75 6.75
Mandarin (see Oil tangerine)
Menhaden, crude, tanks, works, Atlantic & Gulf lb. .08¾ Nom.
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. ..... lb. .17½ Nom
syn., bots ..... lb. 1.60 - 1.85
Neatsfoot, 13° cold test, dms lb. .30 - .33
20° cold test, dms ..... lb. .29 - .32
30° cold test, dms ..... lb. .28 - .31
Neroli, NF, French bots ..... lb.375.00 - —
Nutmeg, USP, dist., East Indian, cns., dms lb.10.90 - —
West Indian, cns., dms .... lb.10.90 - —
Ocotea cymbarum, dms ..... lb. .50 - .60
Oiticica, liq., dms. ..... lb. .15⅞- .16¼
tanks ..... lb. .14¼- .14⅝
Oleo, extra, dms. ..... lb. .18¼- .18¾
Olibanum, bots ..... lb. 5.50 7.65
extra fine, bots ..... lb. 8.00 9.00
Olive, edible, Spanish, dms., duty-paid gal. 3.35 - 3.40

Oil, orange, sweet, dist., cns. .... lb. .45 - .80
expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns. ..... dms. .60 - 1.75
Florida, cns., dms ..... lb. .50 - .60
Messina, cns. ..... lb. 3.85 - 5.85
West Indian, cns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots. .... lb.65.00 -120.00
Origanum, Spanish, cns ..... lb. 2.00 - —
Palm, clarif., dms ..... lb. .1500- .1600
Palmarosa, cns ..... lb. 8.50 -10.00
Paraffin, pale, 100-110 vis., at 100 F. tanks, East Coast refy gal. .14 - —
Patchouli, dms ..... lb. 6.00 - 6.50
Peach kernel, USP (see Oil apricot kernel)
Peanut, crude, tanks, f.o.b. mills. lb. .15¼ Nom.
refd., dms ..... lb. .21¼- .21½
tanks ..... lb. .18⅞- —
Pennyroyal, USP, imported, cns. lb 2.75 3.50
Peppermint, nat., dms ..... lb. 4.75 - 6.50
redist., USP, dms ..... lb. 5.20 - —
Persic, USP (see Oil, apricot kernel).
Petitgrain South American, cns., dms. 3.05 - 3.75
Pimento, berry, NF, dms .... lb. 4.50 5.00
leaf, cns. ..... lb. 2.05 - 2.60
Pine, dest.-dist., dms., l.c.l., works. lb. .12¼- —
ex whse ..... lb. .14¼- —
steam-dist.,, dms., ex whse. N.Y.C lb. .176 - —
dlvd. ..... lb. .179 - —
Pineneedle Siberian (see Oil, abies siberica).

Oil, rapeseed, tankcars ..... lb. .18 - —
Red (see Acid, oleic).
Rice bran, clarif., dms., l.c.l lb. 18 Nom.
tanks, dlvd. E. ..... lb. 15 Nom.
Rose, nat., Bulgarian bots oz 43.00 57.00
Rosemary, Spanish, USP, cns., dms lb 60 1.00
tech., cns. dms ..... lb 50 70
Rue, bots ..... lb 2.00 2.50
Safflower, dms., N. Y. ..... lb. .1785- .1835
tanks, same basis ..... lb .1585- —
Sage, clary bots ..... lb.18.75 -19.00
Dalmatian, cns ..... lb 4.10 4.65
Spanish, cns. ..... lb 1.20 1.45
Sandalwood, NF, cns. ..... lb.13.50 —
Sardine crude tanks Pac coast. lb. .08½- .08¾
Sassafras, artif., dms ..... lb .48 .60
nat., dom., USP dms ..... lb 1.45 2.10
imp. Brazilian (see Oil ocotea cymbarum).
Savin, cns ..... lb 2.75 — —
Savory, cns. ..... lb 4.25 — —
Sesame, refd., dms ..... lb. .28 .39
Shingle stain, tar distillate dms., c.l., works gal 35 - —
t.c.l. works gal 44 - —
tanks, works gal 23 - —
Snakeroot, Canada, cns ..... lb.27.50 -31.00
Soybean, crude, tanks, Decatur. lb. .12½- —
foots soapstock, acid, 95% tanks, N. Y. lb. .06 - —
refd., alkali, dms ..... lb. .1695- .1725
tanks ..... lb. .1495- —
clarified, dms. ..... lb. .1665- .1695
tanks ..... lb. .1445- —
salad, dms ..... lb. .1725- .1750
tanks ..... lb. .15¼- —



OIL OF ORANGE, U.S.P.

Flavor is the most important factor in your finished product. Better *orange* flavor naturally comes from *better oranges*, and all tests prove California oranges are richer in flavor strength, more intense in aromatic constituents.

Wherever you use Oil of Orange, be sure your supplier provides Exchange Brand California Oil of Orange. No other oil of orange has the world-wide reputation of Exchange Brand, produced by the people who know citrus best—the Sunkist Growers of California.

Flavor is one of your least expensive ingredients. Doesn't it seem foolish to settle for cheaper, inferior orange oil when flavor is so important yet costs so little? Ask your supplier for Exchange Brand Oil of Orange, with its consistent year-after-year quality and its richer orange flavor.

Exchange

Sunkist Growers

Products Department • Ontario, California

Distributed in the U.S. and Canada by
Dodge & Olcott, Inc., 180 Varick St.
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Fritzsche Brothers, Inc., 76 Ninth Ave.
New York 11, N.Y.
Ungerer & Company, Inc.
161 Avenue of the Americas
New York 13, N.Y.

Inquiries from countries other than the U.S. and Canada should be directed to the Products Department, Sunkist Growers.

Oil, Spearmint—Petrolatum

Oil, spearmint, USP, dms..... lb. 4.35 - 5.60
Sperm, bleached winter, 45° dms lb. .1675- .1725
tanks ..... lb. .1500- —
nat. winter, 45°, dms..... lb. .1575- .1625
tanks ..... lb. .1400- —
Spruce, cns., dms ..... lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb 4.25 9.50
Southern, cns ..... lb. 2.30 2.75
Tall, crude, dms., c.l., works lb. .03¾ .04⅛
tanks, works ..... lb. .02½- —
dist., dms., c.l., works .... lb. .07½- —
l.c.l., works ..... lb. .07¾- —
tanks, works ..... lb .06¼- —
refd., dms., c.l., works.... lb. .06½- .06¾
lb. .06½- .06¾
l.c.l. works ..... lb 06¾- 07¾
tanks, works ..... lb 05¼ 05¾
Tallow, acidless, dms., c.l..... lb. .13½- —
l.c.l. ..... lb. .14½- .16
Tangerine, Floridian, dms lb 2.00 2.80
Tansy, dms ..... lb. 7.50 - 8.40
Tar acid (see T's).
Pine, comm., dms., c.l., works lb 0561- —
l.c.l., works ..... lb. 0634- —
whse ..... lb. 0745- —
tanks works ..... lb. 046 —
rectified, NF, dms., incl., l.c.l., works, South gal 1.05 -
ex whse, N. Y. C gal. 1.15 —
refd., dms., incl., works, l.c.l. gal. .92 - —
N. Y. whse. ..... gal. 1.02 - —
Theobroma (see Cocoa butter).

Oil, thyme, NF, red. cns., dms. .. lb. 1.45 - 1.75
white, cns. ..... lb. 1.70 - 2.00
tech. white, cns ..... lb. 40 1.85
Tung, dms., c.l., N. Y. ..... lb. .23¾- —
l.c.l., same basis ..... lb .24¼- .24¾
tanks, N. Y. ..... lb. .22¼- .22½
domestic mills ..... lb. .23 Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns. dms. .. lb. .28 .45
Vetiver, Bourbon cns ..... lb.11.75 -11.90
Haitian, cns. ..... lb. 9.25 -11.00
Java cns ..... lb.18.50 -20.00
Wheat, germ, 5-gal. dms .... gal.11.20 - —
White mineral, tech., 50-65 vis., non-ret dms c.l., f.o.b. N. Y gal. .55 - —
65-75 vis. non-ret., dms. c.l., same basis gal. .56 - —
l.c.l., same basis gal. .61 - —
80 90 vis., non-ret., dms., c.l., same basis gal. .57 - —
l.c.l., same basis gal. .62 - —
135-138 vis., non-ret. dms., c.l., same basis gal. .63 - —
l.c.l., same basis gal. 68 - —
145-155 vis., non-ret. dms., c.l., same basis gal .69½- —
l.c.l., same basis gal. .74½- —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .71 - —
l.c.l., same basis gal. 76 - —
200-210 vs., non-ret. dms., c.l., same basis gal. .75 - —
l.c.l., same basis gal. .79 - —
345-355 vis., non-ret. dms., c.l., same basis gal .78½- —
l.c.l., same basis gal. .84½- —

Oil, wintergreen, USP, nat., Northern, cns. lb. 6.35 -10.30
Southern, cns ..... lb. 3.20 -19.50
syn. (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed (see Oil, Chenopodium, NF).
Wormwood, cns..... lb. 5.50 - 6.85
Ylang-ylang, Bourbon, bots..... lb.14.00 -16.00
extra, bots ..... lb.28.00 -40.00
Madagascar, bots..... lb. No stocks
Oleostearine, dms..... lb. .13 - .14
Opium, USP, cns..... oz.19.20 -19 45
gran., USP, cns..... oz.21.65 -21.90
powd USP cns..... oz.21.65 -21.90
Orange cadmium-selenide lithopone, light shade, bbls., frt. alld. E. of Rockies lb. 1.80 - —
deep shade, bbls..... lb. 2.00 - —
Cadmium-mercury lithopone, deep shade, bbls lb. 1.78 - —
Chrome, CP, bbls., dlvd. N. of Tennessee and N.C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island St. Louis St. Paul lb. .33 - .33½
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.
Dinitroaniline toner CP..... lb. 1.45 - —
Mineral, American, bbls., l.c.l., works lb. .2235- —
Molybdated, bbls. ..... lb. .46 - .46½
o-Nitroaniline toner, kegs. .... lb. 1.15 - —
Orange peel, bitter, Haitian, bls lb. .14 - .16
sweet, bls. ..... lb. .16 - .18

Orris root, Florentine, bls..... lb. .55 - —
powd., bbls., bxs..... lb. .68 - —
Verona, bls. ..... lb. .35 - .40
powd., bbls., bxs..... lb. .45 - —
Orthoaminobiphenyl (see o-Aminobiphenyl)
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol)
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl)
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage, orange, cryst., No. 1, bbls, l.c.l. lb. .40 - —
extract, liq., No. 1, bbls., l.c.l., lb. .19 - —
Ouabain, USP, bots..... gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb.4.75 - 5.00
smaller lots, works..... lb. 4.92 - 5.17

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Papain, USP, African, bots..... lb. 3.50 - 4.00
Ceylon ..... lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
smaller lots ..... oz. 5.05 - 5.20
Sulfate, cns. ..... oz. 7.10 - 7.35
Paprika, Roumanian, bgs..... lb. 26 - —
Spanish, bgs..... lb. .43½- .45
Yugoslavian, bgs. ..... lb. .37 - —
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitroaniline).
Parachloranilin (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude, scale, white, 123°-127°F, ASTM, tanks, refy. lb. .0710- —
fully refd., 122°-124°F, ASTM, tanks, refy lb. .0815- —
125°-127°F, ASTM, tanks, refy lb. .0815- —
130°-132°F, ASTM, tanks, refy lb. .0815- —
132°-134°F, ASTM, tanks, refy lb. .0815- —
135°-137°F, ASTM, tanks, refy. lb. .0815- —
AMP temperatures are an arbitrary 3°F higher than ASTM.
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld. lb. .1075- —
l.c.l., frt. alld..... lb. .1275- .1375
powd., bgs., c.l., frt. alld. lb. .15½- —
l.c.l., frt. alld..... lb. .17 - —
USP, X, fib. dms., c.l. ..... lb. .183 - —
1,000-lb. lots ..... lb. .193 - —
smaller lots ..... lb. .208 - —
Paraldehyde, tecn., 98%, 55-gal. dms., c.l., works lb. .14 - —
l.c.l., works ..... lb. .15 - —
tanks, works ..... lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15%, dealers, bgs., dms., frt. alld. lb. .50 - .53
tech., dms., c.l., t.l., works.... lb. 1.3395- —
l.c.l., works ..... lb. 1.51 - —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paris green, dealer, dms., c.l., frt. alld. lb. .44 - .47
l.c.l., same basis ..... lb. .45 - .48
Passion flower herb, bls. ..... lb. .25 - —
Peanut meal, 45%, old process, bgs., mills. ton.55.00 Nom.
Pectin, citrus, NF, powd., bbls. lb. 2.05 - 2.06
tech., powd., bbls. ..... lb. 1.35 - —
imported, Danish, ex whse.... lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .0475- .0520
Procaine, bulk.....1,000,000 units. .0475- .0520
Sodium, sterile, bulk, 1,000,000 units. .0475- .0520
Pentachlorophenol, dms., c.l., t.l., works, frt. equald. lb. .22 - —
l.c.l., same basis..... lb. .23½- .30
Pentaerythritol, tech., bgs., c.l., works. lb. .32 - —
l.c.l., works ..... lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks., Tex. refy. gal. .13 - —
Pepper, black, Malabar, spot, bgs. lb. .28½- —
red, Gondar, spot, bgs..... lb. No prices.
Japanese, hontaka, bgs..... lb. .34 - —
birdseyes, bgs., new crop. lb. No prices.
Mombasa, bgs., shipt..... lb. .56 - .57
Nigerian, bgs..... lb. .42 - —
Turkish, bgs. ..... lb. .28 - —
white, bgs..... lb. .35 - .36
Peppermint leaves, USP, dom., bls., imp., bls..... lb. .85 - —
dms. lb. .70 - .75
Perchloroethylene, dms., c.l., or truckloads, dlvd. lb. .13 - —
l.c.l., dlvd. ..... lb. .14½- —
tanktruck, 1,000 gal., min. dlvd lb. .12 - —
tanks dlvd. ..... lb. .11½- —
Peru balsam, dms..... lb. 1.35 - —
Petrolatum, extra amber, dms., c.l., refy. lb. .06¼- .06⅞
l.c.l., dlvd. ..... lb. .08 - .08¼
tanks, refy. ..... lb. .04½- .05⅛
cream, dms., c.l., refy..... lb. .07⅛- .08⅛
l.c.l., dlvd. ..... lb. .09½- .09¾
tanks, refy. ..... lb. .05⅛- .06⅛
USP, white, lily, dms., c.l., refy. lb. .07⅛- .08¼
l.c.l., dlvd..... lb. .09⅛- .10⅛
tanks, refy..... lb. .05⅞- .07
snow, dms., c.l., refy..... lb. .08½- .08¾
l.c.l., dlvd. ..... lb. .10¾- .10⅞
tanks, refy. ..... lb. .06⅜- .06⅞
yellow, soft, dms., c.l., refy. lb. .06¼- .06¾
l.c.l., dlvd. ..... lb. .07⅞- .08⅛
tanks, refy. ..... lb. .04½- .06⅞

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Petroleum, lacquer diluent, 150°-240°F, b.r., tanks, West Coast, ex tax, Los Angeles,	gal.	.169	.204
East coast, N. J., N. Y.	gal.	.19	—
Group 3, benzol-type	gal.	.14125	.14625
toluol-type	gal.	.13125	.13375
Mineral spirits, reg., tanks, Calif., ex tax, San Francisco	gal.	.164	—
East coast, N.J., N.Y	gal.	.17	—
Group 3	gal.	.11875	—
tankwagon, Boston	gal.	.19	—
Buffalo	gal.	.193	—
Chicago	gal.	.279	—
Cleveland	gal.	.22	—
Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
Pittsburgh	gal.	.18	—
Providence	gal.	.195	—
odorless, tanks, refy., Watson, Cal.	gal.	.245	—
Borger, Tex.	gal.	.24	—
Houston, Tex.	gal.	.24	—
Wood River, Ill.	gal.	.2625	—
N. J., dlvd.	gal.	.32	—
N. Y., dlvd.	gal.	.32½	—
tankwagon, N. J., dlvd	gal.	.36	—
N. Y., dlvd.	gal.	.37	—
Naphtha, cleaners, tanks, East Coast, N. J., and N. Y.	gal.	.17	—
Group 3	gal.	.12875	—
tankwagon, Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
High solvency (see Petroleum solvent, partial aromatic)			
VM&P, 225°-300°F., b.r., tanks, West Coast, Los Angeles	gal.	.169	—
Portland, Ore	gal.	.175	—
San Francisco	gal.	.174	—
Seattle, Wash	gal.	.175	—
East Coast, N. J. and N. Y.	gal.	.18	—
Group 3	gal.	.12875	—
tankwagon, Boston	gal.	.205	—
Chicago	gal.	.289	—
Cleveland	gal.	.23	—
Newark	gal.	.195	—
New York	gal.	.193	—
Philadelphia	gal.	.20	—
Pittsburgh	gal.	.19	—
Solvent, partial aromatic, tanks, 205°-282°F., b.r., 41°C., m.a.p., N. Y., N. J	gal.	.245	—
212°-278°F b.r. 43°C. m.a.p., N. J	gal.	.26	—
212°-284°F b.r., 19°C. m.a.p., N. J	gal.	.29	—
224°-280°F., b.r., 48°C, m.p.a., Houston	gal.	.215	—
273°-361°F b.r., 29°C. m.a.p., N. J	gal.	.29	—
282°-325°F b.r., 41.5°C. m.a.p. Houston	gal.	.25	—
287°386°F., b.r., 31°C., m.a.p., N. J.	gal.	.29	—
310°-314°F., b.r., 13.5°C., m.a.p., Texas City	gal.	.33	—
310°-348° b.r., 17°C., m.a.p., N. Y., N. J	gal.	.35	—
320°-360°F., b.r., 16°C., m.a.p., N. Y., N. J	gal.	.33	—
324°-349°F., 37°C., m.a.p., Houston	gal.	.33	—
341°-390°F., b.r., 35°C., m.a.p., N. J	gal.	.27	—
352°-413°F., b.r., 30°C., m.a.p. Houston	gal.	.33	—
358°-401°F., b.r., 25°C., m.a.p., N. Y., N. J.	gal.	.39	—
364°-404°F b.r., 19°C. m.a.p., N. Y., N. J	gal.	.425	—
367°-418°F b.r., 19.6°C. m.a.p., N. Y., N. J	gal.	.33	—
Rubber, tanks, Cal., ex tax, San Francisco	gal.	.173	—
East Coast N. J., N. Y.,	gal.	.18	—
Group 3	gal.	.12875	—
Stoddard, tanks, East Coast, N. J., N. Y.	gal.	.17	—
Group 3	gal.	.12375	—
Pennsylvania western	gal.	.15	—
tankwagon, Boston	gal.	.19	—
Chicago	gal.	.289	—
Cleveland	gal.	.22	—
Los Angeles, ex tax	gal.	.194	—
Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
Pittsburgh	gal.	.18	—
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret.	dms., c.l., works lb.	.16½	.18¾
	l.c.l. works lb.	.17½	.19
	tanks, works lb.	.14½	.17
50-55% sulfonic content, non-ret.	dms., c.l., works lb.	.16	—
	l.c.l., works lb.	.17	—
	tanks, works lb.	.13	—
o-Phenetidine, dms., t.l., frt. alld.	E lb.	.91	—
l.c.l., same basis	lb.	.93	—
p-Phenetidine, dms., c.l., frt. alld.	lb.	1.00	—
l.c.l., same basis	lb.	1.03	—
Phenobarbital, USP, dms., 100-lb. lots	lb.	3.25	3.75
Phenobarbital-sodium, USP, dms., 100-lb. lots	lb.	3.25	3.75
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt. alld E. of Rockies	lb.	.17¾	.18
l.c.l. same basis	lb.	.18¼	.19
tanks, same basis	lb.	.16	—
82-84% (cresol 16-18%), non-ret.	dms., c.l., same basis lb.	.17½	—
	l.c.l., same basis lb.	.18½	—
	tanks, same basis lb.	.15½	—
39°C or above, tar distilled, non-ret. dms. c.l., same basis.	lb.	.19¼	.19½
l.c.l. same basis	lb.	.19¾	.20½
tanks, same basis	lb.	.17½	—
USP, syn., dms. c.l., t.l., frt. alld	lb.	.20	—
l.c.l., same basis	lb.	.22	—
tanks, same basis	lb.	.18	—
Phenolphthalein, USP or yellow, bbls., dms., 2,000-lb. lots.	lb.	1.10	—
smaller lots	lb.	1.12	1.17
Phenothiazine NF fib dms., c.l., frt. adjusted	lb.	.39	—
over 2,100 lbs., same basis	lb.	.41	—
less than 2,100 lbs., same basis.	lb.	.43	—
Phenyl acetate, dms., 100-lb. lots, works	lb.	.50	—
Salicylate (see Salol.)			
Phenylacetaldehyde, soln., 50%, bots	lb.	2.40	2.70
100%, bots	lb	4.00	4.65
dl-Phenylalanine, dms. works	lb.	27.00	37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib dms., dlvd. E	lb.	3.60	—
smaller dms. dlvd. E	lb.	4.00	—
N-Phenyldiethanolamine, dms., c.l., dlvd. E	lb.	.40½	—
l.c.l., dlvd. E	lb.	.41½	—
tanks, dlvd. E	lb.	.38½	—
m-Phenylenediamine dms. frt. alld.	lb.	.95	—
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works	lb.	1.70	1.80
p-Phenylenediamine, refd., tech., dms., works	lb.	1.42	—
Phenylethanolamine, dms., c.l., works	lb.	75½	—
l.c.l., same basis	lb.	76	—
Phenylethyl acetate, bots	lb.	1.25	1.60
Phenylhydrazine base, CP, bots	lb.	3.00	3.07
Hydrochloride, coml., kgs., works,	lb.	1.75	—
purif., bots., works	lb.	5.17	—
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E	lb	1.80	—
smaller lots, dlivd. E	lb.	2.10	—
Phenylethylphenyl acetate, bots	lb.	4.15	4.35
o-Phenylphenol, dms., l.c.l., works,	lb.	.42	.44
p-Phenylphenol, bgs., c.l., works	lb.	.37	—
l.c.l., works	lb.	.41½	—
Phloroglucinol, coml., fib. dms., works	lb.	6.40	—
C.P., bots., works	lb.	17.75	—
tech., fib. drums., works	lb.	10.45	—
Phosphate, defluorinated (see under D). Rock, Curacao, Atlantic ports, New Orleans	ton.	48.00	—
Florida, land pebble, run-of-mine, washed dried unground, bulk, c.l., mines,	68-66%, b.p.l., bulk, c.l., mines long-ton.	4.94	4.99
	70-68%, b.p.l., c.l., same basis long-ton.	5.34	5.39
	72-70%, b.p.l., c.l., same basis long-ton.	5.99	—
	75-74%, b.p.l., c.l., same basis long-ton.	6.99	—
	78-76%, b.p.l., c.l., same basis long-ton.	7.99	—
The Florida prices (above) are based on fuel oil at $2.47 per bbl. and labor at $1.43. Recent oil advance currently absorbed.			
Phosphorus, amorph., red dms., t.l., works	lb.	.48	—
smaller lots, works	lb.	.49	.50
white (yellow), solid, dms., c.l., works, frt. equald	lb.	.20	.20½
l.c.l., works, frt equald.	lb.	.21½	—
tanks, works, frt. equald.	lb.	.19	—
Phosphorus oxychloride, dms., c.l., works	lb.	.14	—
l.c.l. works	lb.	.15	—
tanks, works	lb.	.12½	—
Pentasulfide, solid, dms., c.l., works	lb.	.11½	—
l.c.l. works	lb.	.12½	—
Pentoxide, dms., c.l., works	lb.	.13½	—
l.c.l. works	lb.	.16½	—
Sesquisulfide, tins, cs., c.l., works.	lb.	.38	—
l.c.l., works	lb.	.39	.40
Trichloride, dms., c.l., works	lb.	.14	—
l.c.l., works	lb.	.15	—
tankcars, works	lb.	.12½	—
Phthalic anhydride ogs, c.l., works, frt. equald	lb.	.21	—
l.c.l., same basis	lb.	.22	—
tanks, same basis	lb.	.20½	—
Phthalimide, 97%-98%, dms., frt. equald	lb.	.65	—
Phthalylsulfacetamide, 1,000-lb. lots or more	lb	5.00	—
NF	lb.	5.20	—
a-Picoline, ret. dms., c.l., works, frt. equald	lb.	.43	.43½
l.c.l., works, frt. equald	lb.	.44	—
tanks, same basis	lb.	.415	.422
b,g-Picoline, 5°C, dms. c.l., works.	lb.	.32½	—
l.c.l. works	lb.	.33	—
g-Picoline, 98%, dms., works	lb.	2.00	—
Pilocarpine hydrochloride, USP, bots	oz.	4.75	5.25
Nitrate, USP, bots., vials	oz.	4.63	4.73
Pimento, Jamaican, bgs	lb	.72	—
Mexican, bgs	lb.	.45	—
Pink root, bls	lb	2.50	—
Piperazine, crude, dms., c.l., works,	lb.	3.15	—
l.c.l., works	lb.	3.30	—
Hexahydrate, French Codex, bots.	kilo.	8.00	8.50
Piperidine dist. dms. frt equald	lb	2.60	2.70
Piperonyl butoxide dms dlvd E	lb	4.50	5.05
Pitch, coaltar, bulk, aluminum works	ton.	40.00	42.00
carbon and industrial, works,	ton.	40.00	—
core, works	ton.	36.50	—
fiber, works	ton.	44.00	—
Cottonseed raw, dms. works	lb.	.03	.03½
tanks	lb.	.02¾	—
Linseed, dms	lb.	.06	.06¾
Marine, dms	lb.	.04¼	.05
Petroleum (see Asphalt, petroleum).			
Soybean, dms., works	lb.	.05	.05½
Tall, dms., c.l., works	ton.	50.00	70.00
tanks, works	ton.	30.00	40.00
Plaster of Paris (see Gypsum).			
Platinum metal, works	oz.	105.00	107.00
Pleurisy root bls	lb	.45	.50
Podophyllum resin, NF, dms	lb.	13.60	16.10
Poke root bls	lb.	.19	.22
Polymyxin, bulk, bots. dms., 50 billion units or more.	1,000,000 units.	52	—
25-50 billion units	1,000,000 units.	.54	—
1-25 billion units	1,000,000 units.	.56	—

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Whether you require exceptional detergency properties in the basic raw material or from a surfactant in intermediate form or in a finished product—it will pay you to consult Oronite—the world's largest producer of synthetic detergent raw materials. Our extensive technical experience is at your disposal.

want HIGH suds or LOW suds?

Oronite's D-40 finished dry detergent in flake, granule or powder form has excellent foaming power in hard or soft water. D-60 offers you a higher active product. Nonionic Dispersant NI-W is a water soluble, low sudsing product desirable where "foam" is a handicap.

want rapid, thorough "wetting"?

D-40, D-60 in dry form, Wetting Agent "S" in paste form and NI-W in liquid form have superior wetting ability. Compare these products with those you are now using—samples are available. Or, tell us your particular needs for "wetting" and we can provide suggested formulations.

want emulsifying or dispersing action?

D-40 and D-60 have the ability to emulsify and suspend animal, vegetable, and mineral fats, oils and greases. Oronite's water soluble Dispersant NI-W is completely compatible with soaps, anionic detergents and cationic germicides. Its companion product Dispersant NI-O is an outstanding emulsifier for water-in-oil emulsions.

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Polyoxyethylene Sorbitan monostearate—Quebracho

Polyoxyethylene sorbitan monostearate dms. 20,000-lb lots, works lb 41 · —
10,000-20,000-lb lots works lb 43 · —
smaller lots works lb 46 48
tristearate, dms. 20,000 lb. lots, works lb 41 · —
10,000-20,000 lb lots, works, lb 43 —
smaller lots works lb 46 48
Poppy seed, Argentine, bgs lb .24 · —
Dutch, bgs lb .28½ · —
Iranian bgs lb .14½ · .15
Polish, bgs lb .28 · —
Turkish bgs lb No prices
Potash caustic reg. flake, 88-92% dms. c.l., works 100 lbs 9.15 · —
l.c.l., works 100 lbs 10.20 · —
liq. 45% basis dms. c.l., works 100 lbs. 4.25 · —
l.c.l. same basis 100 lbs 5.05 · —
tanks, same basis 100 lbs 3.70 · —
solid, 88-92%, dms., c.l., works, 100 lbs. 8.70 · —
l.c.l., works 100 lbs. 9.75 · —
Potassium acetate, NF dms lb 31 · .36
Bicarbonate, USP gran., dms lb. 22 · —
powd. dms lb 24 · —
Bichromate, gran., bgs., c.l., t.l., works lb. .18 · —
l.c.l., works lb. .18½ · .19¾
Potassium bichromate in dms ½c higher

Potassium bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs., 1 ship't. lb. .40½ · —
dms., c.l lb. .40 · —
smaller lots lb. .41 · .43
imp., kgs lb. .31 · —
Bromate dms. 1,000 lbs or more, lb. .50 · —
25-200 lb lo lb .52 · .62
Bromide, USP, gran. bbls., kgs lb. .37 · .38
Carbonate, NF gram. bbls. dms. lb. .20 · —
powd. bbls. dms lb. .21 · .22
tech. calcined bbls. c.l., works. 100 lbs. 9.00 · —
l.c.l. same basis 100 lbs 10.05 · —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 · —
l.c.l., works 100 lbs 8.65 · —
Chlorate cryst. dms. c.l., works. lb. .10¼ · —
l.c.l., works lb. .10½ · .11½
powd., dms., c.l., works lb. .10¾ · —
l.c.l., works lb. .11 · .12
NF gran. 25-lb metal dms lb. .35 —
Chloride, agricultural (see Potassium muriate).
indust. 99.9% KCl bulk, c.l., works ton.29.00 · —
bgs., c.l., works ton.33.50 · —
99.3% KCl bulk c.l., works ton.27.00 · —
bgs., c.l., works ton.31.50 · —
USP, cryst., dms lb. .21 · .23
gran., dms lb. .15 · .17
powd. dms lb. .24 · .26
Chromate, tech., bgs. lb. .50 · .50½

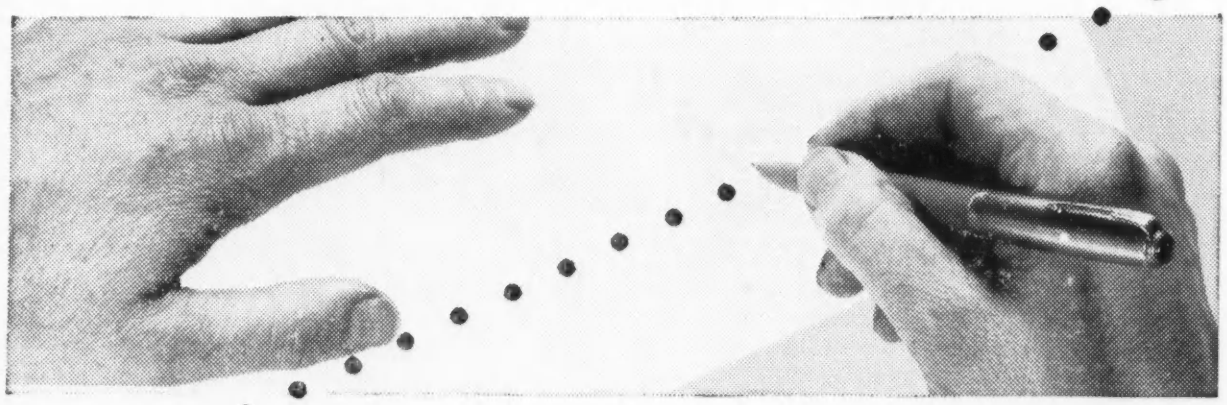
Potassium nitrate, USP, gran., dms. lb. .43 · —
powd., dms lb. .40½ · .41½
Cyanide dms., 20,000-lb. lots or more works lb. .45 · —
2,000-19,999-lb lots works lb. .455 · —
smaller lots, works lb. .465 · —
Dichromate (see Potassium bichromate).
Ferricyanide, dms., ton lots lb. .50 · —
Ferrocyanide, bgs., ton lots lb. .22½ · —
smaller lots lb. .23 · —
Fluoborate, fib dms. c.l., works. lb. .30 · —
l.c.l., works lb. .31 · —
Fluoride, dms., works lb. .37 · .38
Gluconate, dms. lb. 1.60 · —
Guaiacolsulfonate, NF, dms lb. 2.10 · 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb dms. 1 to 100-dm lots lb. .28½ · .33
Hypophosphite, NF, fib dms., ton lots or less lb. 1.00 · 1.03
Iodide, dms lb. 1.90 · 1.95
Metabisulfite, gran., dms. lb. .20 · .21
powd., dms lb. .25 · —
Muriate, standard and granular, 59-63% K_2O, bulk, c.l., works, base price unit-ton. .36 · —
July forward unit-ton. .38 · —
granular, 60-63% K_2O., bgs., c.l., works, base price ton.26.25 · —
July forward ton.27.45 · —
Nitrate, cryst., bbls. 20-ton lots. 100 lbs.14.40 · —
smaller lots 100 lbs.14.65 -14.90
gran., bbls., 20-ton lots 100 lbs. 9.75 · —
smaller lots 100 lbs.11.10 -11.50
powd., bbls. 20-ton lots 100 lbs.10.75 · —
smaller lots 100 lbs.12.00 -12.50
USP, gran., dms. lb. .18 · —
Potassium nitrate in bags 50c. per 100 lbs. less in kegs $1 more

Potassium oxalate, neutral, tech., fine gran., bbls., dms lb. .30 · .31
Pentaborate, gran., bgs., c.l., works. ton.191.50 · —
dms., ton lots, ex whse ton.198.00 · —
smaller lots, ex whse ton.302.50 · —
Powdered potassium pentaborate $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .18½ · —
l.c.l., works lb. .19 · .20
Permanganate, coml., kgs. works. lb. .24½ · .27½
USP, dms., works lb. .27¼ · .29
Persulfate, bbls., c.l., works lb. .16½ · —
dms., 5-ton lots, works lb. .18 · —
1-ton lots, works lb. .20 · —
Pyrophosphate, tetrabasic, dms., works lb. .15½ · .18½
Prussiate red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass bgs., c.l., works. 100 lbs.17.00 -17.30
l.c.l., works 100 lbs.17.80 · —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 · —
l.c.l., 5 dms. or more works 100-lbs. 6.55 6.95
tanks, works 100-lbs 5.45 —
electrical grade, 29° Be, 1:2.0 dms., c.l., works 100 lbs. 6.50 · —
l.c.l., 5 dms. or more, works 100 lbs. 7.25 · 7.65
tanks, works 100 lbs. 6.15 · —
40.5° Be. 1:2.1, dms., c.l., works 100 lbs. 6.45 · —
l.c.l., 5 dms. or more works 100 lbs. 7.20 7.60
Silicofluoride, bgs., works lb. .09½ · .10
Potassium silicofluoride in drums 0.4c. per lb higher
Stannate, dms., frt. alld. E lb. .732 · .798
Sulfate agricultural 50% K_2O, bulk, works, base price, unit-ton. .64 · —
July forward unit-ton. .67 · —
NF VII, cryst., dms lb. .31 · .33
gran., dms. lb. .18½ · —
powder dms. lb. .16½ · .17
Sulfocyanate, NF, cryst., (see Potassium thiocyanate).
5-ton lots, works lb .14½ · —
1-ton lot or less, works lb. .14¾ · —
Thiocyanate NF, cryst., dms lb. .84 · .94
tech., works lb. .77 · .79
Titanate, ctns., c.l., works lb. .14 · —
Toluene sulfonate, dms., c.l., or t.l., works lb. .42 · —
l.c.l. works lb. .46 · —
Potassium-magnesium sulfate, bulk, works, basis 40% K_2SO_4, 18% MgO base price ton.13.45 · —
July forward ton.14.00 · —
Potassium-sodium tartrate, NF, gran. powd., dms., c.l. lb. .42½ · —
5,000-lb. lots lb. .43 · —
smaller lots lb. .43½ · .49
Potassium-titanium fluoride, fib. dms, works lb. .39 .40
Potassium-zirconium fluoride, fib. dms, c.l., works lb. .50 · —
l.c.l., works lb. .52½ · .55
Pregnenolone, bots. gram .45 · —
Acetate, bots. gram .40 · —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb. 2.83 · —
100-500-lb. lots lb. 2.95 3.15
Progesterone, USP bots., 100 gram lots gram .50 · —
Acetate, bots. gram .70 · —
Propane, indust., tanks, group 3 gal. .05 · —
N. Y. Harbor gal. .093 · —
n-Propyl acetate, dms., c.l., dlvd. lb. .13¼ · —
l.c.l., dlvd lb. .14¼ · —
tanks, dlvd lb. .11¼ · —
Gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 4.40
p-Hydroxybenzoate, USP, dms lb. 2.30 2.40
Propyl thiouracil, bots., 50-kilo lots or more kilo.55.00 · —
smaller lots kilo.55.10 -55.30
Propy thiouracil prices in West 1c. higher dlvd., on same basis.
Propylene dichloride, dms., c.l., dlvd. E lb. .09½ · —
l.c.l., same basis lb. .10½ · —
tanks, same basis lb. .07 · —
Glycol, indust., dms., c.l., dlvd. E lb. .16 · —
l.c.l., same basis lb. .17 · —
tanks, same basis lb. .13½ · —
USP, dms., c.l., dlvd. E lb. .18 · —
l.c.l., same basis lb. .19 · —
tanks, same basis lb. .15½ · —
Methyl ether dms., c.l., dlvd lb. .20 · —
l.c.l. same basis lb. .21 · —
tanks, same basis lb. .18½ · —
Oxide, dms., c.l., dlvd. E lb. .17½ · —
l.c.l., dlvd. E lb. .18½ · —
tanks, dlvd. E lb. .15½ · —
Psyllium seed, black, bgs. lb. .55 · —
blonde, bgs. lb. .18 · —
husks, bgs. lb. .40 · —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝ · .04¼
smaller lots lb. .03⅞ · .04½
imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06½ · —
fine, bgs., ton lots lb. .04 · —
sun dried, coarse, bgs. ton.58.00 · —
Pumpkin seed, bgs lb. .25 · .26
Pyrethrin, syn. (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .45 · —
powd., 1.3% pyretlurins, bbls., works lb. .65 · —
liq. 20/1 basis (2 grams pyrethrins per 100cc odorless base), 100/1 basis (10 grams pyrethrine per 100cc odorless base), dms., works gal.41.75 -42.75
oleoresin, dewaxed, 20%, dms., works lb.10.00 · —
purif., 20% dms., works lb.10.00 -10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal. 2.77 · —
l.c.l., same basis gal. 2.80 · —
refd., 2°, non-ret. dms., l.c.l., same basis lb. .75 · —
Pyridoxine hydrochloride, bots., 100-gram lots gram .37½ · —
Pyrites, Canadian, works long-ton. 3.00 · 5.00
Pyrocatechol (see Catechol).
Pyrogallol, NF, dms. lb. 3.27 · 3.30
Pyroxylin, scrap, ungrd., amber, dms., works lb. .20 · —
black, dms., works lb. .12 · —
mixed, mottled, dms., works lb. .13 · —
shavings, amber, cs., works lb. No stocks.
mixed colors, dms., works lb. .11 —
white, china, ivory, dms., works lb. .16 · —
dense, opaque, dms., works, lb. .12 · .15
translucent pastels, cs., works. lb. .14 · —
colors, dms., works lb. .15 · —
USP bots lb. 9.50 · —

Q

Quassia chips lb. .17 · —
Quebracho extract, clarif., grd., 70% tannin, bgs., c.l., lb. .16½ · .16¾
liq., 35% tannin, bbls., works. lb. .08¼ · .08½

Before you sign your new contract for caustic soda



Right now is the time—before you make your new contract commitments—to carefully review the form of caustic soda you plan to buy.

If you have been buying flake or solid, you may find it a profitable move to switch to liquid.

On the other hand, if you have been buying 50% liquor, you may save substantially by converting to 73% concentration.

Naturally, your location and the volume of caustic soda you use will affect how much your savings may be. But only an up-to-date analysis can tell. Changes in freight rates or changes in your own operation in recent years may have altered drastically the most economical form of caustic for you.

So, before you make your new commitments, consult Columbia-Southern's Technical Service Department. A staff member will be assigned to review the whole picture and to help you determine the most advantageous form of caustic soda you should buy.

Write, wire or telephone our Pittsburgh office today.

COLUMBIA-SOUTHERN CHEMICAL CORPORATION

SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY

ONE GATEWAY CENTER · PITTSBURGH 22 · PENNSYLVANIA

DISTRICT OFFICES: Cincinnati • Charlotte Chicago • Cleveland • Boston • New York St. Louis • Minneapolis • New Orleans • Dallas Houston • Pittsburgh • Philadelphia San Francisco

IN CANADA: Standard Chemical Limited and its Commercial Chemicals Division

Quebracho extract, solid, clarif., 64% tannin bgs., c.l., ex-dock, duty extra ..... lb. .12 23/64
ord. 63% tannin, bgs., c.l., same basis lb 11 21/32 —
Quercitron extract, cryst., No 1, bbls., l.c.l. lb 40 - —
liq. No 1, bbls. l.c.l lb 19 - —
Quicksilver (see Mercury metal)
Quince seed, bgs ..... lb 2.00 Nom
Quinidine sulfate USP cns., 100-oz. lots oz. .73 .75
Quinine, NF, cns. 100-oz lots oz .54 —
Bisulfate USP cns. 100-oz lots. oz. 37½ —
Hydrochloride, cns., 100-oz. lots. oz. .35 - .47½
Sulfate, USP, cns., 100-oz. lots oz. .29 - .35
Quinoline dms. c.l. frt equald lb 50¾ —
l.c.l., same basis ..... lb. .51¼ —
tanks, same basis ..... lb .50 - —

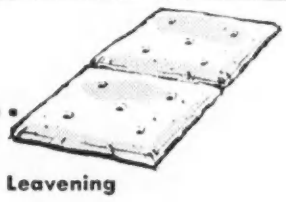
R

R salt paste dms. frt. alld., 100% basis lb .88 —
powd. frt alld. 100% basis lb .98 - —
Rauwolfia serpentina root, powd., bbls., dms lb. 1.75 - —
Red, BON acid maroons pure bbls. lb 1.75 - —
resinated bbls lb 1.50 - —
arylid, deep shades, bbls lb 3.60 - —
light shades, bbls lb 2.75 —
maroon bbls lb 3.60 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade bbls. same basis lb 4.00 - —
medium shade bbls. same basis lb 4.25 - —
medium light shade bbls. same basis lb 4.05 - —
orange shade bbls., same basis lb 3.95 - —
orange red bbls. same basis lb 1.81 - —
Selenide lithopone maroon shade, bbls., same basis lb. 3.77 - —
dark, bbls., same basis. lb 3.90 - —
red shade, dark, bbls., same basis lb. 3.44 - —
light, bbls., same basis. lb 2.24 2.32
medium, bbls., same basis lb 2.99 - —
medium light, bbls., same basis lb 2.49 - —
Mercury lithopone, dark shade, bbls., same basis lb. 2.40 - —
light shade, bbls., same basis lb 1.95 - —
medium shade, bbls., same basis lb 2.25 - —
medium light shade, bbls., same basis lb 2.10 - —
Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar)
Eosin toner, bbls., works lb. 1.65 - —
Indian, dom., pure, bgs., Bethlehem Easton E St Louis, N Y lb .12¾ - —
Iron oxide, nat., 75-85% ferric oxide bgs. l.c.l., Bethlehem Pa., Copley, O., Easton, Pa., bgs. c.l., works lb. .0675 - —
Lake C toner, alizarine, bbls., works lb 1.13 - —
rubine toner pure bbls. works lb 1.50 - —
resinated, bbls., works lb 1.40 - —
Virginia type bbls., works lb 1.40 - —
Maroon toner, MNPT, kgs., c.l., works lb 3.60 - —
10,000-lb lots, works lb 4.22 - —
smaller lots, works lb 4.24 - —
Mercury oxide, tech. c.l., works, lb. 5.77 - —
Metallic, bbls., c.l., works lb. 02½ - —
l.c.l., works lb 02¾ - —
Naphthol, ITR, bbls., works lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works, lb. 07¾ - —
l.c.l., works lb. 08 - —
Para toner, bbls lb. 1.10 - —
chlorinated, kgs lb 1.10 1.15
Phloxin toner (see Red eosin toner)
Rhodamine, molybdated, PMA, kegs lb. 5.35 - 5.60
tungstated, PTMA works, kegs. lb 6.40 - —
Spanish oxide, bbls., c.l., ex-dock, lb. .05¾ - —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb 06½ - —
Toluidine toner, deep shades, kgs., works lb. 1.62 - 1.65
light shades, kgs. works lb 1.62 1.65
Turkey, bbls., works lb. 62 - —
Tuscan, bbls., frt. equald lb. .26 - .32
Venetian, jobbing, bgs., works lb. 0475 - —
20%, bgs., works lb. .0525 - —
25%, bgs., works lb. .0575 - —
30% bgs., works lb. .06 - —
35%, bgs., works lb. .0625 - —
40%, bgs., works lb. .0675 - —
Watchung-type bbls lb 1.95 —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide, red)
Red saunders, NF, powd. bbls lb. .35 - .40
Reserpine, cryst., bots gram. 3.75 - —
Resorcinol, tech grade dms., c.l., works, frt. equald lb. 77½ - —
l.c.l., same basis lb. 78½ - —
USP, dms., works lb 2.75 - —
powd., dms., works lb 2.95 - —
Monoacetate, NF dms lb 3.00 - 3.25
Rhatany root, bgs lb .15 .16
Rhodinol, 5-lb. cans lb. 32.00 -36.00
Rhubarb root, India, whole, bgs. lb. .30 - —
powd., bbls lb. .38 - —
Riboflavin, USP, bots., dlvd kilo. 65.00 - —
readily soluble, bots., dlvd kilo. 130.00 - —
5'-phosphate-sodium, bots., 100-kilo lots or more kilo. 125.00 - —
Rochelle salt (see Potassium sodium tartrate).
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works, unit-lb, resin, 25-45%, fib. dms., works, unit-lb, .12 - —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03¾ - —
ton lots, same basis lb. .04¼ - —
Rutin, NF, fib. dms. 25-kilo lots, kilo. 17.50 -18.50
10 to 25-kilo lots kilo. 17.50 -20.00
1 to 10-kilo lots kilo. 18.90 -20.00
Ryania, 100%, powd., bgs., c.l., works lb. .22 - —
l.c.l., same basis lb .24 - —

S

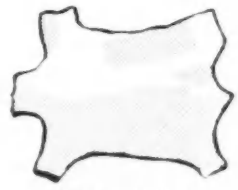
Sabadilla seed, powd., bbls lb. .49 - .49½
activated, ground with lime, bbls. lb. .30 - .32
Saccharin USP cryst., soluble, dms., 1000-lb. lots lb. 1.60 - —
smaller lots lb. 1.70 - 1.80
Saccharin, USP, powd., soluble, insoluble, dms., 1,000-lb. lots, lb. 1.65 - —
smaller lots lb 1.75 1.95
Calcium fib dms. 1,000-lb. lots, works lb 2.50 - —
Saffron Spanish USP tins lb. 45.00 - —
Safrol, dms lb. .90 1.05
Sage, Cretan, bgs lb 11 —
Dalmatian, bgs lb 44 —
Italian lb 26 Nom
Sago flour, raw bgs lb 07 07¼
refd. bgs lb 08½ .09
Sal soda (see Soda sal)
Salicylamide, 100-lb dms lb. 1.25 - —
Salol, NF, gran., bbls, kgs lb 1.15 —
Powdered salol 25c higher
Salt, rock, paper bgs., c.l. 100 lbs. 1.03½ - —
table, vacuum, common, fine, paper bgs., c.l. 100 lbs 1.27½ - —
Saltcake, dom, bulk works 100% Na2SO4 basis ton 28.00 —
Saltpeter (see Potassium nitrate)
Sandalwood, East Indies chips bgs 65 .66
powd. fib dms lb 75 76
Schaeffer's salt paste dms, frt alld 100% basis lb 95 —
powd bgs. frt alld 100% basis lb 95 —
Scopolamine hydrobromide USP bots oz. 13.50 -16.50
Seidlitz mixture bbls 5,000-lb lots lb .30½ —
smaller lots lb 31 32
Selenium powd., 99½% dms. dlvd lb. 13.50 -15.50
Senega root, bls lb. 2.75 - —
Senna leaves, Alex. whole and half, bls lb. .19 —
siftings lb 17 —
Tinnevelly, No. 1, bls lb 16 - .18
No. 2 bls. lb 13 - .15
No. 3, bls lb. 11 13
powdered, bbls., bxs lb. 13 - —
pods bls. lb .14 —
Serpentaria root, bls lb 5.50 - —
Sesame seed, Egyptian, hulled, bgs. lb. .21½ - —
nat., bgs. lb. .17 - —
Nicaragua, hulled, shipt., bgs. lb. .23 - —
nat., bgs lb. .16½ - —
Salvadorian, natural, bgs lb. .18½ —
Indian, natural, bgs. lb. N.P.
Shellac, bleached, bonedry, bgs., 2,500-lb. lots lb. .56 - —
bbls., 1,500-lb lots lb. .57 - —
kgs., 1,500-lb lots lb. .58 - —
refd., bgs., 1,500-lb lots lb. .66 - —
bbls., 1,500-lb lots lb. .67 - —
kgs., 1,500-lb lots lb. .68 - —
Bonedry shellac prices for less than 1,500 lb lots 1c per lb higher for all packages.
Lemon No. 1, bgs., 10-bg. lots lb. .49 - —
No. 2, bgs., 10-bg. lots lb. .47 - —
Superfine, bgs., 10-bg lots lb. .46 - —
Shellac in 1 to 10-bg lots 1c per lb more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd 325 mesh, bgs. c.l., works ton 25.00 —
l.c.l. works exwnse ton 45.00 -53.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton 20.00 - —
l.c.l. works ton 25.00 -30.00
140 mesh bgs. c.l. works ton 15.00 - —
l.c.l. works ton 20.00 - —
Silicon tetrachloride tech. dms., c.l., works lb. .18 - —
l.c.l. works lb. .22 - .30½
tanks, works lb. .17 - —
Silver bullion, ingots, cs. Troy oz. .91⅞ - —
Cyanide fib dms., 2,500-oz. lots oz. .87 - —
1,000-oz. lots oz. .87¾ - —
500-oz. lots oz. .87½ - —
100-oz. lots oz. .87¾ - —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .62¼ - —
1,000-oz. lots oz. .63¼ - —
500-oz. lots oz. .64 - —
250-oz. lots oz. .64½ - —
USP granular silver nitrate 4c per oz higher
Proteinate mild USP bots., dms., 1,000 oz lots oz 1.05 - —
strong NF bots dms 1,000 oz lots oz 1.00 - —
Soapbark, whole bls lb 38 - 40
crushed bls. bbls lb 45 —
powd. bbls lb 45 —
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 - —
l.c.l., stock points 100 lbs. 3.00 - 4.77
bulk, c.l., works 100 lbs. 1.60 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
l.c.l., stock points 100 lbs. 3.95 - 4.72
bulk, c.l., works 100 lbs. 1.55 - —
Soda, caustic, flake, 76% dms., c.l., works, frt. equald 100 lbs. 4.70 - —
l.c.l., stock points 100 lbs. 5.80 - —
liq., 50%, sellers tanks, works, dry basis 100 lbs. 2.90 - —
rayon type, sellers, tanks, works, dry basis 100 lbs. 2.90 - 3.00

Biscuit baking...



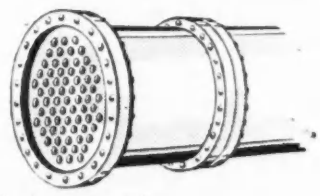
Leavening

leather tanning...



Neutralizing

gypsum removal...



Scale removal

each uses a different property of

SOLVAY AMMONIUM BICARBONATE

WHICH OF THESE PROPERTIES CAN YOU USE?

Physical and Chemical Properties

Molecular Weight: 79.06

Solubility in Water: 14% at 10°C., 17.4% at 20°C., and 21.3% at 30°C.—Insoluble in alcohol.

Negative heat of solution

Stability: Relatively stable at room temperatures.

Volatility increases sharply above 140°F.

Decomposition product ratios are as follows:

Ammonia gas (NH_3)..... 21.5%
Carbon dioxide gas (CO_2)..... 55.7%
Water vapor (H_2O)..... 22.8%

pH of 1/10 N solution at 25°C.: 7.8

Appearance: White Crystals

Quality: Exceptionally pure. Food grade.

Very low metal content.

The leavening of thin-baked goods, the neutralization of strong leather-making acids and the removal of gypsum from processing equipment are typical of the many and diverse processes that have adopted properties of SOLVAY Ammonium Bicarbonate. These properties include the economical and complete volatilization to a nontoxic gas at low temperatures and without residue. Its solutions have lower pH and yet greater neutralizing ability than certain competitive alkalies. It also provides a dry, crystalline source of ammonia for packaged cleaning compounds.

Whether your need ranges from a material to create voids, to mild neutralization of acids, or to a dry source of ammonia for household cleaning compounds—check the properties of SOLVAY Ammonia Bicarbonate.

Check This Coupon—Mail Today

Allied Chemical

SOLVAY PROCESS DIVISION
ALLIED CHEMICAL & DYE CORPORATION
61 Broadway, New York 6, N. Y.

Please send me without cost:

☐ Test Samples of SOLVAY Ammonium Bicarbonate.
☐ Specific information requested in my attached letter.

Name_____
Company_____
Address_____
City_____ Zone_____ State_____

DU-10

SOLVAY®

Aluminum Chloride • Vinyl Chloride • Calcium Chloride
Potassium Carbonate • Sodium Nitrite • Caustic Potash
Snowflake® Crystals • Sodium Bicarbonate • Caustic Soda
Ammonium Chloride • Methylene Chloride • Methyl Chloride
Ammonium Bicarbonate • Ortho-dichlorobenzene • Chloroform
Soda Ash • Monochlorobenzene • Carbon Tetrachloride • Para-dichlorobenzene
Chlorine • Cleaning Compounds • Hydrogen Peroxide

Soda, Caustic—Sodium Sesquicarbonate

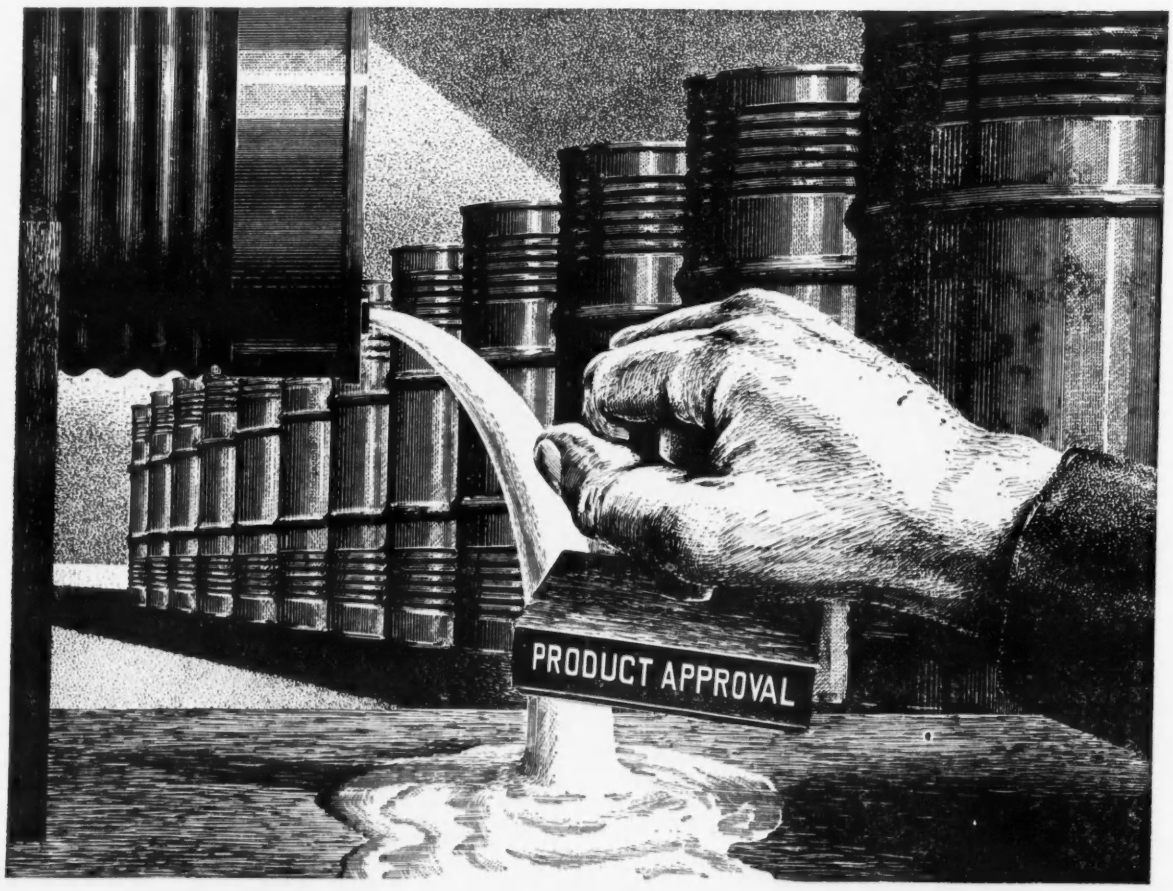
Soda, caustic, liq., 73%, sellers' tanks, works, dry basis. 100 lbs. 3.00 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 3.00 - 3.10
solid, 76%, dms., c.l., works. 100 lbs. 4.30 - —
l.c.l., stock points 100 lbs. 5.50 - —
Sal. conc., bgs., c.l., works. 100 lbs. 2.50 - —
smaller lots, works 100 lbs. 2.80 - —
Sodium acetate anhyd ogs., c.l., works lb. 13 - —
dms., c.l., works lb. .13¾- —
NF 66% gran dms., c.l., works lb. .14 —
l.c.l. works lb. .15½- —
Alginate NF white powd., dms., ton lots, works lb. .87 1.30
p-Aminobenzoate, dms., 1,000-lb. lots or more lb. 2.25 - —
smaller lots lb 2.35 2.45
p-Aminosalicylate, dms., 100 lbs. or more, frt. adjusted lb 2.70 - —
Antimoniate, bbls. c.l., dlvd. E. lb. .28 - —
l.c.l., dlvd E lb. .29½- —
Arsenate, 45% arsenic pentoxide, dms., c.l., works lb. .12½- —
l.c.l., works lb. .13¾- .14½
Arsenite 90%, pink powder, 75% arsenious oxide, dms., works lb. 12¼- —
l.c.l., works lb. .13 .14½
soln. dms., works gal .59 .67

Sodium ascorbate, dms., 25-50 kilo lots kilo.12.00 - —
10-kilo lots kilo.12.35 - —
5-kilo lots kilo.12.75 - —
1-kilo lots kilo.13.00 - —
bots., 500-gram lots kilo.13.50 - —
Benzoate, tech., bbls., dms., lots or more lb. .39 - —
USP bbls., dms. 100-lb. lots, or more lb. 46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 - —
l.c.l., works 100 lbs. 3.85 - —
powd., bgs., c.l., works, 100 lbs. 2.55 - —
l.c.l., works 100 lbs. 3.45 - —
Bichromate, gran., bgs., c.l., t.l., works lb. .13 - —
l.c.l., works lb. .13½ .14¾
Bifluoride bbls., c.l. works, frt. equald lb. .19½- —
l.c.l., same basis lb. .1990- —
Bisulfate, bulk., c.l., works 100 lbs. 2.00 - —
dms., c.l. frt. equald 100 lbs 3.00 3.60
l.c.l. frt. equald 100 lbs 3.50 4.10
Bisulfite, anhyd., bgs., c.l., works. 100 lbs. 5.00 - —
l.c.l., works 100 lbs. 5.40 - —
soln., 35° bbls., c.l., works. 100 lbs 1.55 - —
l.c.l., works 100 lbs 2.05 - —
Borate (see Borax)
Bromide, USP, bbls., works lb. .38 - —
Carboxymethyl cellulose (see CMC).

Sodium carbonate, cryst., monohydrated (see Soda, sal), monohydrated, bgs., c.l., works. 100 lbs. 3.10 - —
l.c.l., works 100 lbs. 3.50 - —
Chlorate, cryst., dms., c.l., works. lb. .09 - —
l.c.l., works lb. .10½- .11¼
Chloride, tech. (see Salt).
USP, bgs. lb. .05 - .12
Chlorite, tech., dms., c.l., works. lb. .58 - —
20-ton lots or more, works lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Chromate, anhyd., fiber dms., c.l., t.l., works lb. .14¾- —
l.c.l., same basis lb. .15¼- .16½
tetrahydrate, bgs., c.l., t.l., works lb. .1015- —
l.c.l. lb. .1065- .1190
Citrate, anhyd., dms lb. .62 —
NF VIII, gran., dms lb. .26½- .27½
USP XIV gran., dms lb. .29½- .30½
Sodium citrate USP powd. prices ½c. higher
Cyanate, dms., 1,000-lb. lots, works lb. .85 1.10
smaller lots, works lb. 1.00 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb lots lb. .178 - —
over 1,000-lb. lots lb. .188 - —
100-lb. to 1,000-lb lots lb. .198 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .15 - —
l.c.l., works lb. .15¾- —
anhyd., dms., c.l., works lb. .18 - —
l.c.l. works lb. .18¾- —

Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
smaller lots. lb. .14 - —
Fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390- —
l.c.l. works lb. .1430- —
Formate, bgs., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb. fib. dms. lb. 5.50 - —
Gluconate, refd., dms. lb. .80 - .83
tech, dms lb. .35 - —
Glutamate, mono., dms., c.l. lb. 1.20 - —
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate)
Hydrosulfite, dms., c.l., frt. alld. lb. .24 - —
l.c.l., frt. alld. lb. .24½- —
Hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots lb. .18½- .23
technical (see Soda, Caustic).
Hydrophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, anhyd., bgs., c.l., works 100 lbs. 7.25 - —
l.c.l., works 100 lbs. 7.65 - —
Hexahydrate, pea cryst., bgs., c.l., works 100 lbs. 5.15 - —
l.c.l., works 100 lbs. 5.55 - —
photo grade, bgs., c.l., works. 100 lbs. 7.75 - —
l.c.l., works 100 lbs. 8.05 - —
Pentahydrate, tech., bgs., c.l., works 100 lbs. 5.15 - —
l.c.l., works 100 lbs. 5.55 - —
Iodide, USP, bots., dms. lb. 2.55 2.62
Lactate, edible, 50%, cbys., dms., works lb. .21½- —
60% cbys. dms works lb .26½ —
tech., 50% cbys. dms., works lb. .16½ —
Laurvl sulfate, dms., c.l., dlvd lb. .21 - —
l.c.l., dlvd lb. .22 - —
tanks, dlvd lb. .18½- —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton 85.00 —
l.c.l. ex whse ton.135.50 -140.50
Sodium metaborate octahydrate in bbls $24.50 per ton higher
Tetrahydrate, dms., c.l., works. ton.204.00 - —
Metallic bricks, 14,000-lb. lots or more, works lb. .19½- —
fused, 14,000-lb. lots, works. lb. .19 - —
tanks works lb .16 —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 - —
l.c.l., works 100 lbs. 6.15 - 8.10
dms., c.l 100 lbs. 6.20 - —
l.c.l. 100 lbs. 6.65 - 8.55
Pentahydrate, bgs., c.l., works. 100 lbs. 4.45 - —
l.c.l. works 100 lbs. 4.85 - 6.75
dms., c.l. works 100 lbs. 4.95 - —
l.c.l., works 100 lbs. 5.35 - 7.25
Molybdate, anhyd., dms., works, frt. equald lb. .92 - .96
cryst., dms., works, frt. alld lb. .73 - .74
Monohydrate (see Sodium carbonate monohydrated).
Naphthionate, bbls lb. 70 - —
Nitrate, crude dom., bgs., c.l., works ton.47.00 - —
bulk c.l. works ton 43.50 - —
tmp 100-lb. bgs. c.l. Atl Gulf, Pac., whse ton.49.50 - —
bulk, c.l., same basis ton.46.00 - —
Nitrite, USP, bbls., c.l., works, frt. equald 100 lbs. 8.50 - —
l.c.l., same basis 100 lbs.10 50 - —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 - —
l.c.l., works 100 lbs. 7.05 - 7.65
hydrated, flake, bbls., c.l., works. 100 lbs. 5.65 - —
l.c.l., works 100 lbs. 7.60 - 7.90
Oxalate, 88% bgs. works 100 lbs.10.85 - —
Para-aminobenzoate (see Sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate)
Pentachlorophenate, briquets, bgs., c.l., works, frt equald lb. .26 - —
l.c.l. same basis lb. .27½- .34
pellets, bgs., c.l., same basis lb. .26 - —
l.c.l., same basis lb. .27½- .34
powd., bgs., dms., c.l., same basis lb. .25 - —
l.c.l. same basis lb. .26½- .33
Sodium pentachlorophenate, 20,000 lbs., min. truckloads, ¼c. per lb. over carlot prices.
Perborate, NF, tech., bgs., c.l., works lb. .19 - —
l.c.l., works lb. .21 - —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .20 - —
l.c.l. same basis lb. .20½- .21
Phenolsulfonate, USP IX, gran., dms lb. .44 - .45
Phosphate, dibasic, anhyd., bgs., c.l., frt. equald 100 lbs. 7.65 - —
l.c.l., works 100 lbs. 8.05 - —
USP dried powd. bgs., dms., works lb. .19 - .20¼
monobasic anhyd., bgs., c.l., frt. equald 100 lbs. 8.70 - —
l.c.l., frt. equald 100 lbs. 9 10 - 9 70
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.20 - —
l.c.l. frt. equald 100 lbs. 7 60 - 8.20
tribasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.00 - —
l.c.l., frt. equald 100 lbs. 9 05 - 9.65
cryst., bgs., c.l., t.l., frt. equald 100 lbs. 4.40 - —
l.c.l. frt. equald 100 lbs. 4.80 - 5.40
Sodium phosphates in dms. 60c. higher than bgs.
Prussiate, yellow (see sodium ferrocyanide),
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lb.10.85 - —
l.c.l., works 100 lbs.11.60 -11.85
ferric, dms., c.l., t.l., works. lb .36 - —
l.c.l., works lb. .37 - .39
tetrabasic, anhyd., bgs., c.l., works, frt equald 100 lbs. 7.52½- —
l.c.l., frt. equald 100 lbs. 7.92½ 8.52¼
Salicylate, USP, dms lb. .74 - .76
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.35 - —
l.c.l., dlvd, zone 1 100 lbs. 4.10 - 4.35
zone 2 100 lbs. 4.35 - 4.60
zone 3 100 lbs. 4.75 - 4.90
zone 4 100 lbs. 5.35 - 5.60

Sales zones are: (1) Atl. States E. of Miss., R. and N. of south bound of Ky. and Va., Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia., and St. Louis; (2) Ark E. of 98° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.



Protect your product purity

with quality-controlled shipping

Now you can extend the results of your own exacting quality control measures right to your customer's door. Quality controlled shipping in USS Steel Drums is the answer.

HERE'S WHY:

Both the inside *and* outside of every drum-body, head and bottom are completely descaled. Following this, all surfaces are purged with an alkali solution that removes every single trace of processing dirt and grease. The final step is to completely cover all surfaces of the drum-body and both ends with a special phosphate solution that provides long-term protection from rust. These careful production steps add up to complete protection for your product — when your shipping is done in USS Steel Drums.

USS Steel Drums are available in sizes from 2½ to 110 gallons . . . plain or decorated. One of our many sizes and shapes of fittings is sure to meet your specifications.

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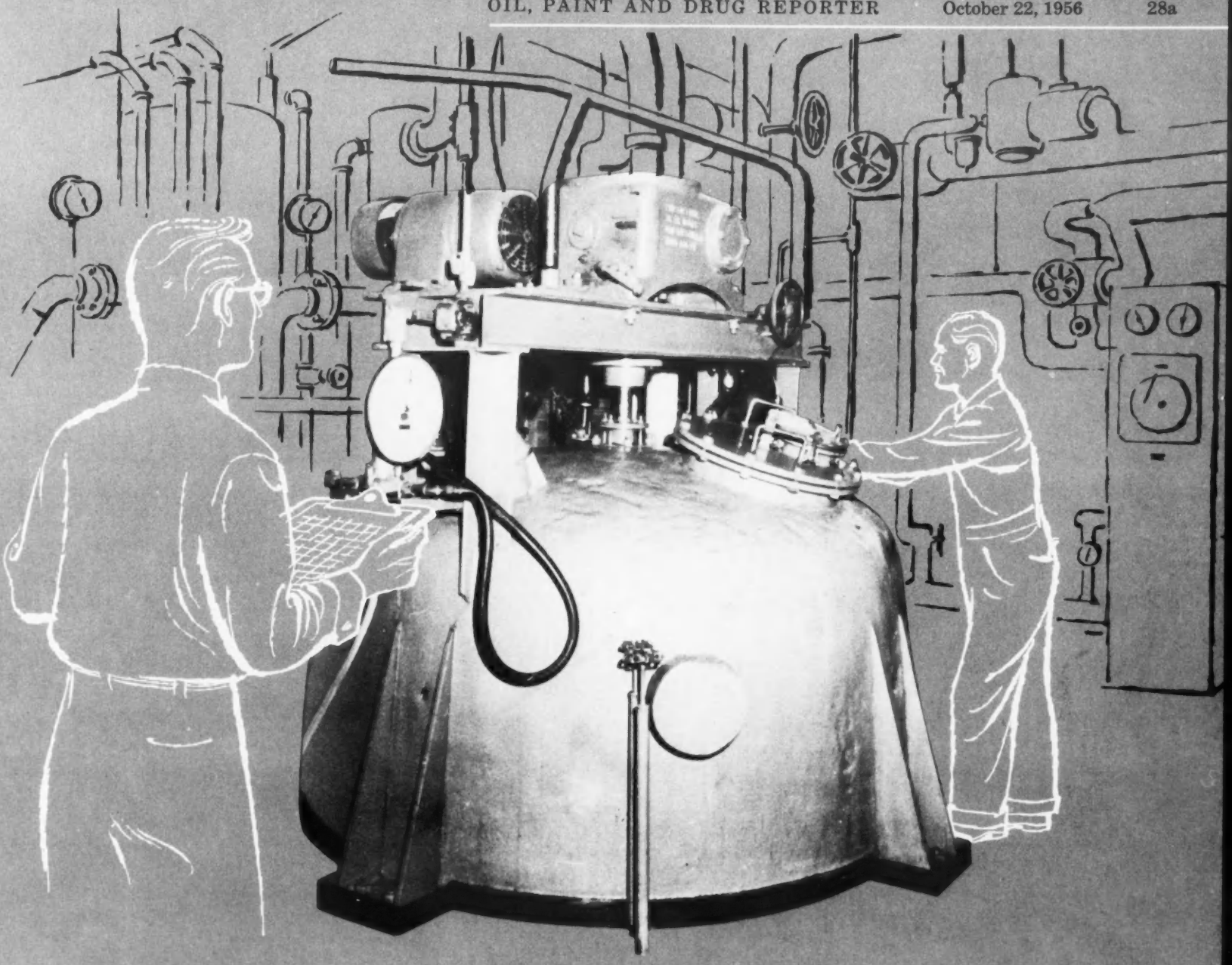
USS STEEL DRUMS

UNITED STATES STEEL



talk to anyone

who knows **process chemicals**

he thinks of Mallinckrodt® first for fine chemicals

but, he may not know that . . .

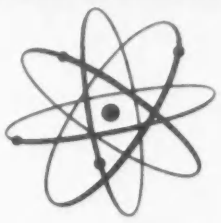
Mallinckrodt® **supplies chemicals to over 200 industries** ir

In addition to making laboratory reagents and prescription chemicals which are usually put up in small bottles, by far the major share of Mallinckrodt's business is in ***bulk chemicals*** — ton lots, carloads, millions of pounds . . . serving more than 200 industries.

Make no mistake — we're proud of the nation-wide reputation Mallinckrodt fine chemicals have earned among pharmacists and laboratory chemists.

But, if you are *not* one of the many chemists, chemical engineers or production managers who are now specifying Mallinckrodt industrial chemicals, we want to remind you that ton lots . . . carloads . . . millions of pounds of *process chemicals bear the same Mallinckrodt label guarantee* of uniform, dependable purity which will improve *your* process and cost you less.

MALLINCKRODT'S TECHNICAL KNOW-HOW AND FACILITIES HAVE SOLVED MANY PROBLEMS



Mallinckrodt Pioneered the First Commercial Production of

URANIUM OXIDE FOR THE ATOMIC ENERGY ERA

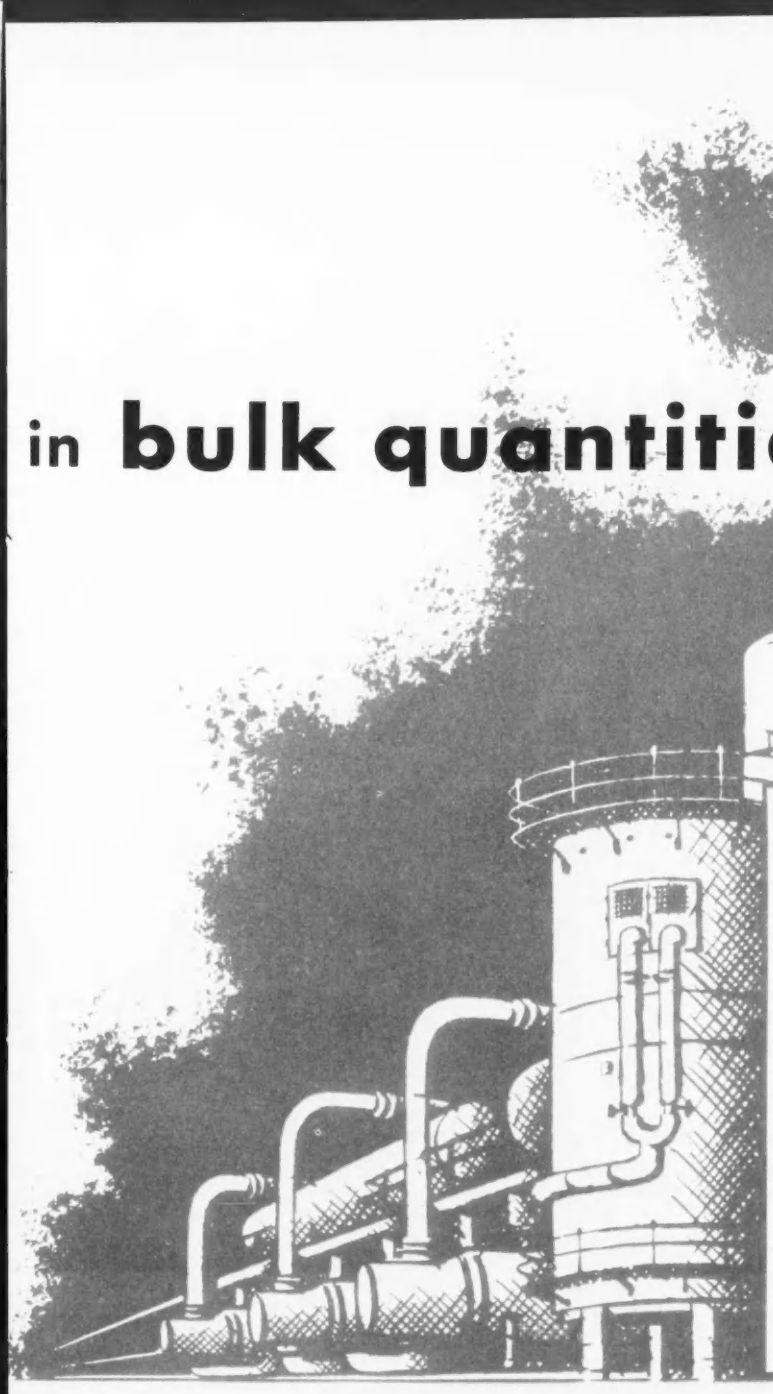
In April 1942, Mallinckrodt — because of its excellent facilities and reputation for producing pure chemicals — was assigned the job of refining crude uranium ore for the Manhattan Project. At this time it was known that ether extraction could be used to provide pure uranium oxide on a small scale, but large-scale production was necessary.

Mallinckrodt, calling on the resources of its skilled chemists, scientists and a few outside sources, in 15 weeks time designed, built and put into operation a new commercial plant and started delivery of pure uranium oxide *in quantities of one ton per day.*

Later, the Smyth report recorded: "Delivery started in July 1942 at the rate of 30 tons a month . . . it was a remarkable achievement to have developed and put into production on a scale of the order of one ton per day a process transforming grossly impure commercial oxide to oxide of a degree of purity seldom achieved even on a laboratory scale."

Since 1942, Mallinckrodt has been a major producer of uranium for the Atomic Energy Commission. Today, Mallinckrodt is more active than ever in this field. Facilities have been enlarged at the St. Louis plant and in 1957 Mallinckrodt will be operating a new $30,000,000 plant for the AEC at Weldon Spring, Missouri.

in bulk quantities



PERIODIC CLASSIFICATION OF THE ELEMENTS

GROUP		Ia	IIa	IIIb	IVb	Vb	VIb	VIIb	VIIIb			Ib	IIb	IIIa	IVa	Va	VIa	VIIa	VIIIa
PERIODS	1	H																	He
	2	Li	Be											B	C	N	O	F	Ne
	3	Na	Mg											Al	Si	P	S	Cl	A
	4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
	5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
	6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
	7	Fr	Ra	Ac															

Rare Earths	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Ac Series	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf					

CALL ON Mallinckrodt FOR COMPOUNDS OF THE CIRCLED ELEMENTS

PROGRESS THROUGH CONTINUING RESEARCH

Television tube and fluorescent light manufacturers, food processors, beverage manufacturers, battery producers, paint and varnish manufacturers, paper mills, oil and grease producers, photographic and graphic arts industries are only a few of the more than 200 industries that look to Mallinckrodt for service and the right chemicals for trouble-free and profitable large-scale production.

A few of the many chemicals Mallinckrodt manufactures for American Industry:

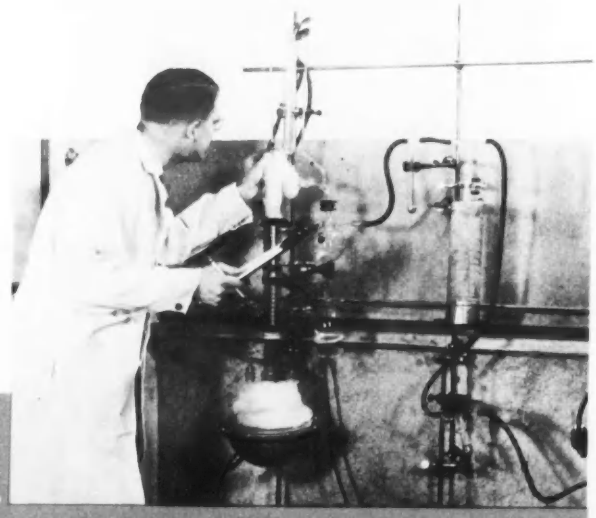
Acid Citric
Acid Gallic
Acid Pyrogallic
Acid Silicic
Acid Tannic
Alum Chrome Potassium
Aluminum Chloride
Aluminum Stearate
Ammonium Chloride
Ammonium Sulfite
Barium Acetate
Barium Carbonate
Barium Sulfide
Cadmium Carbonate
Cadmium Chloride
Cadmium Nitrate
Cadmium Sulfate
Calcium Carbonate
Calcium Chloride
Calcium Fluoride
Calcium Phosphate
Calcium Stearate
Calcium Sulfate
Chromium Sulfate
Collodion
Cupric Sulfate
Ether
Ferrous Sulfate
Iodine
Magnesium Carbonate
Magnesium Oxide
Magnesium Stearate
Manganese Carbonate
Manganese Sulfate
Mercuric Chloride
Mercuric Oxide
Mercurous Chloride
Mercury
Misch Metal
Potassium Bicarbonate
Potassium Chloride
Potassium Hydroxide
Potassium Iodide
Potassium Metabisulfate
Potassium Phosphate
Potassium Sulfate
Potassium Sulfite
Pyridylmercuric Salts
Si-O-Lite®
Sodium Bisulfite
Sodium Hydroxide
Sodium Iodide
Sodium Phosphate
Sodium Stearate
Sodium Sulfite
Strontium Chloride
Uranium
Zinc Chloride
Zinc Stearate
Zinc Sulfate

SEND COUPON ON NEXT PAGE for technical assistance

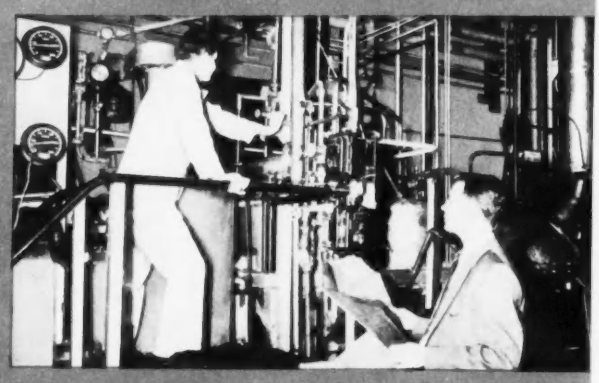
Mallinckrodt

can help you with the right industrial chemicals

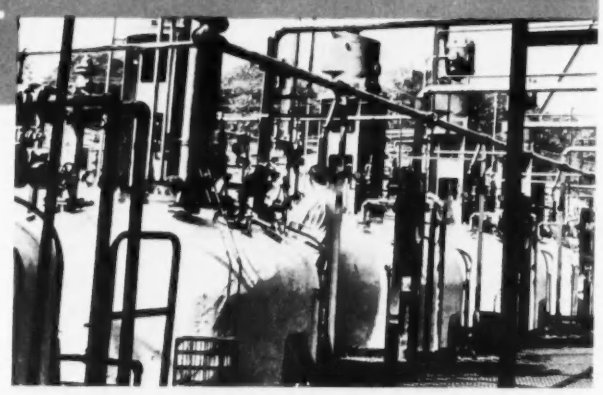
in development. . . . . .



in pilot plant. . . . . .



in full-scale production. . . . .



Call or write Mallinckrodt about the chemical problem you're working on.
You'll find we can be particularly helpful when
– it involves uniformity to avoid frequent equipment adjustment . . .
– physical form is critical in your application . . .
– new standards of purity are required . . .
– you want to upgrade product quality to gain a competitive edge.

Mallinckrodt

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SECOND & MALLINCKRODT STREETS, ST. LOUIS 7, MO.

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IN CANADA: **MALLINCKRODT CHEMICAL WORKS LIMITED**

378 ST. PAUL STREET W., MONTREAL

MALLINCKRODT CHEMICAL WORKS

Second and Mallinckrodt Streets, St. Louis 7, Mo. or 72 Gold Street, New York 8, N. Y.

Yes, I'd like to talk with a Mallinckrodt representative. Ask him to come prepared to discuss:

CHEMICALS_____

APPLICATION_____

_____

_____

NAME_____ TITLE_____

COMPANY_____

ADDRESS_____

CITY_____ ZONE_____ STATE_____

Sodium sesquisilicate, hydrated, bgs., c.l., works	100 lbs.	4.80	—
l.c.l., works	100 lbs.	5.15	—
dms., c.l., works	100 lbs.	5.30	—
l.c.l., works	100 lbs.	5.65	—
Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works	100 lbs.	1.45	—
l.c.l., works	100 lbs.	1.80	2.30
tanks, works	100 lbs.	1.10	—
47° Be. turbid, 1:2.9, dms., c.l., works	100 lbs.	2.10	—
l.c.l., works	100 lbs.	2.70	2.95
tanks, works	100 lbs.	1.75	—
52° Be, turbid 1:2.4, dms., c.l., works	100 lbs.	2.45	—
l.c.l., works	100 lbs.	2.80	3.30
tanks, works	100 lbs.	2.10	—
solid, 1:3.2, bgs. works	con.	62.50	—
Silicofluoride, bgs., c.l., works	lb.	.075	—
l.c.l. works	lb.	.079	—
Sodium silicofluoride in dms., 0.4c per lb higher.			
Stannate dms. works, frt alld.	E lb.	.607	.661
Sulfa drugs (see Sulfa name).			
Sulfanilate, bbls., works	lb.	.22	—
Sulfate, NF VII. dried, powd., dms	lb.	.22½	—
tech., anhyd. bgs. c.l., dlvd.	E ton.	52.00	—
detergent, rayon grade, bgs., c.l., works	ton.	34.00	—
bulk, c.l., works	ton.	31.00	—
USP, cryst., fib dms	lb.	.17½	.18
gran., fib dms	lb.	.17½	.18
Sulfhyrate, flake, 70-72%, dms., c.l., works	lb.	.06¾	—
l.c.l., works	lb.	.07¾	—
liq. 40-44% tanks works, 100% basis	ton.	120.00	—
Sulfide flake dms., c.l., works, E., frt. equald	lb.	.05½	—
l.c.l., same basis	lb.	.06½	—
fused bbls. c.l. works E., frt. equald	lb.	.05	—
l.c.l., same basis	lb.	.06	—
Sulfite, anhyd., bgs., c.l.	100 lbs.	3.25	—
l.c.l., same basis	100 lbs.	3.75	—
Sulfocyanide, CP (see Sodium thiocyanate)			
Tetraborate (see Borax)			
Tetrasulfide, liq., 40%, dms., c.l., c.l., works	lb.	.04	—
l.c.l., works	lb.	.05	—
Thiocyanate CP, dms	lb.	.55	.65
tech., anhyd., dms., 1 ton lots or more, works	lb.	.317	—
less than ton lots, works	lb.	.337	—
Thiosulfate, NF, cryst., bbls	lb.	.13½	—
tech (see Sodium hyposulphite).			
Titanate, etns. c.l. works	lb.	.10½	—
5-ton lots, works	lb.	.10¾	—
1-ton or less, works	lb.	.11	—
Toluene sulfonate dms., c.l., or t.l	lb.	.38	—
t.c.l	lb.	.42	—
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E	lb.	.37½	—
t.c.l. frt adjusted. E	lb.	.39½	—
50-lb. dms., c.l., frt. alld. E.	lb.	.38	—
t.c.l. frt adjusted E	lb.	40	—
10-lb. cns., c.l., frt. alld E	lb.	.44	—
t.c.l. frt adjusted E	lb.	46	—
Prices on Sodium trichloroacetate W of the Rockies are 1¾c per pound higher.			
Tripolyphosphate, bgs., c.l., works, frt. equald	100 lbs.	7.87½	—
t.c.l. same basis	100 lbs	8.27½	8.87½
Trisilicate, powd., 1:3.2, bgs., c.l., works	100 lbs.	8.65	—
t.c.l. works	100 lbs	9.40	9.80
dms., c.l., works	100 lbs.	9.05	—
t.c.l. works	100 lbs	9.80	10.40
Tungstate tech. kgs. dlvd. E	lb.	2.15	—
Sodium-ammonium phosphate, bbls., works frt equald	lb.	.23	—
Sodium-carboxymethyl cellulose (see CMC)			
Sodium-cinchophen (see Cinchophen-sodium)			
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd	lb.	.21	—
t.c.l., same basis	lb.	.21½	—
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works	lb.	.28	—
smaller lots, same basis	lb.	.30	—
Solvent naphtha, coaltar, high flash, tanks, frt equald	gal.	.31	.32
petroleum (see Petroleum solvent, partial aromatic)			
Sorbitan monostearate, fib dms., 20,000-lb. lots, works	lb.	.32	—
10,000 to 20,000-lb lots, works.	lb.	.34	—
smaller lots, works	lb.	.37	.39
Tristearate, fib dms., 20,000-lb. lots, works	lb.	.33	—
10,000 to 20,000-lb. lots, works.	lb.	.35	—
smaller lots, works	lb.	.38	.40
Sorbitol, cryst., resin grade, pellets, dms., c.l., works	lb.	.23	—
1 to 5-ton lots, works.	lb.	.25	.26
powd., dms., 1 to 5-ton lots, works	lb.	.38	.39
soln., coml. aqueous, dms., c.l., works	lb.	.24¼	—
ton lots, works	lb.	.25	—
smaller lots, works	lb.	.25¼	—
tanks, works	lb.	.23¼	—
reg. 70% aqueous, dms., c.l., works	lb.	.16	—
ton lots, works	lb.	.16¾	—
smaller lots, works	lb.	.17	—
tanks, works	lb.	.15	—
Soybean meal, 44%, bulk, Decatur.	ton.	45.00	—
protein, chemically isolated, bgs., c.l., works	lb.	.23	—
mechanically refd. bgs., l.c.l., works	lb.	.066	—
Sparteine sulfate, cns	oz.	.80	.90
Spearmint leaves, dom., bls	lb.	75	—
Spruce extract, liq., reg. tanks, works	lb.	.01¾	—
powd. super. bgs., c.l., works	lb.	.05¼	—
l.c.l., works	lb.	.05½	—
Squill, white, bls	lb.	.16	.18
powd., bbls., bxs	lb.	.17	.20
St. John's bread edible, bls	lb.	.13	.15
Stannic chloride, anhyd., dms., works	lb.	.823	.833
Oxide, dms., dlvd. E	lb.	1.10	1.11
Stannous chloride, anhyd., dms., works	lb.	.958	1.226
hydrous, cryst., dms., works,	lb.	.951	.925
Sulfate, dms., works	lb.	1.011	1.031
Starch, corn, pearl, paper bgs., c.l.,	100 lbs.	7.27	—
t.c.l.	100 lbs.	7.42	—
powd., paper bgs., c.l.	100 lbs.	7.39	—
l.c.l.	100 lbs.	7.44	—
Prices for corn starch in cotton bags, 15c. per 100 lbs. higher.			
Potato, dom, Idaho, bgs., c.l., works	lb.	.06	—
Maine, bgs., c.l., works	lb.	.06¼	—
ex whse, N. Y.	lb.	.08¼	.09¼
Rice, bgs. t.c.l.	lb.	.15½	.16
Wheat, bgs	lb.	.08½	.09
Star root (see Helonias root).			
Stargrass Root (see Aletris root).			
Stavesacre seed, bgs	lb.	.60	.61
Stearine oleo (see Oleostearine).			
Stramonium leaves, bgs	lb.	.18	.20
Streptomycin hydrochloride, bulk,	gram.	.07	.0745
Strontium bromide, NF, cns., dms.	lb.	.80	1.05
Carbonate, pure, dms., 5-ton tots or more, works	lb.	.35	—
1-ton lots, works	lb.	.37	—
tech., dms., works	lb.	.19	—
Chromate, bbls., works	lb.	.46	—
Iodide, pars, 25-lb. lots	lb	3.48	—
Nitrate, bbls., c.l., works	100 lbs.	11.00	—
l.c.l., works	100 lbs.	12.00	—
Salicylate, NF dms	lb.	1.78	—
Sulfate, air floated, 90%, 325 mesh, bgs., works	ton.	56.70	66.15
Strophanthin, K., bots.	oz.	25.00	25.50
G. (see Ouabain, USP).			
Strophanthus seed, Kombi, biologically tested, bgs	lb.	3.50	3.75
Styrax, USP cs	lb.	.78	.80
Styrene monomer, polymer grade, 99½%, dms. c.l. frt. alld.	lb.	.22½	—
t.c.l. same basis	lb.	.23½	—
tanks, same basis	lb.	.21½	—
synthetic rubber grade, 99%, dms. c.l. frt. alld	lb.	.18	—
l.c.l., same basis	lb.	.19½	—
tanks, same basis	lb.	.16	—
Styrolyl acetate, bots	lb	1.45	1.70
Sucrose, refd., white, bgs., refy., E	lb.	.0885	—
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works	lb.	76	—
Sugar (see Sucrose, crude, refined).			
Sulfabenzamide, dms	lb	4.00	4.50
Sodium, dms	lb	4.10	4.60
Sulfacetamide, fib dms	lb	4.00	4.20
USP, same basis	lb.	5.00	5.20
Sodium fib dms	lb	5.00	5.20
USP, same basis	lb.	5.20	5.40
Sulfadiazine USP, microcrystals, dms	lb.	10.60	11.10
powd. dms	lb.	10.25	10.75
Sulfadiazine-sodium USP dms	lb.	11.25	11.75
microcrystals, dms.	lb.	11.60	12.10
Sulfaguanidine USP dms	lb	2.50	—
Sulfamerazine USP microcrystals.	lb.	10.65	11.15
Sulfamerazine-sodium USP dms.,	lb.	11.25	11.75
Sulfamethazine, microcrystals, dms.,	lb	8.90	9.40
powd., dms	lb	8.50	9.00
Sulfanilamide, USP 30-80 mesh., dms	lb	1.40	1.60
microcrystals, dms	lb	1.70	1.90
powd. dms	lb	1.30	1.50
Quinoxaline, veterinary, dms	lb	6.40	6.75
Sulfapyridine NF powd. bots. tins.	lb.	7.00	7.50
Sulfapyridine-sodium monohydrate, dms	lb	7.50	8.00
Sulfathiazole, USP, microcrystals, dms	lb	2.85	3.00
powd. dms	lb	2.50	2.65
Sulfathiazole-sodium, USP, dms	lb	2.75	2.90
Sulfur, coml., flour, bgs., mines,	100 lbs.	2.55	—
bbls., mines	100 lbs.	3.30	—
lump, bgs., mines	100 lbs.	2.45	—
bbls., mines	100 lbs.	2.90	—
Sulfur, crude, bulk, c.l., mines, contract	long-ton.	26.50	—
export, t.o.b vessels, Gulf ports	long-ton.	28.00	—
domestic and Canada, f.o.b vessel Gulf port	long-ton.	28.00	—
refd., flowers, USP, bgs., mines	100 lbs.	4.25	—
bbls.	100 lbs.	5.50	—
flour, light, bgs., mines	100 lbs.	3.85	—
bbls., mines	100 lbs.	4.75	—
lump, bgs., mines	100 lbs.	3.55	—
rolls, bgs., mines	100 lbs.	4.10	—
bbls., mines	100 lbs.	4.65	—
salt block, bbls., mines.	100 lbs.	3.75	—
virgin block, bbls., mines.	100 lbs.	3.70	—
rubbermakers, coml., reg., bgs., mines	100 lbs.	2.65	—
bbls., mines	100 lbs.	3.80	—
98-100% passing through 325 mesh, bgs., mines	100 lbs.	2.75	—
bbls., mines	100 lbs.	3.90	—
refd., bgs., mines	100 lbs.	3.50	—
bbls., mines	100 lbs.	4.55	—
treated, 2.5% mineral oil, bgs., mines	100 lbs.	2.95	—
bbls, mines	100 lbs.	4.10	—
Dichloride, dms., c.l., works, frt. equald	lb.	.04	—
t.c.l. same basis	lb	04¾	—
tanks, same basis	lb	03¾	—
Dioxide, liq., coml., cyls. works, frt. equald	lb.	.10	.12
multi unit cars, works	lb.	.0535	—
tanks, works	lb	.045	—
refrigeration, 150-lb. cyls., dlvd.	lb.	.30	—

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Diacetone Alcohol
Secondary Butyl Alcohol
Isopropyl Ether

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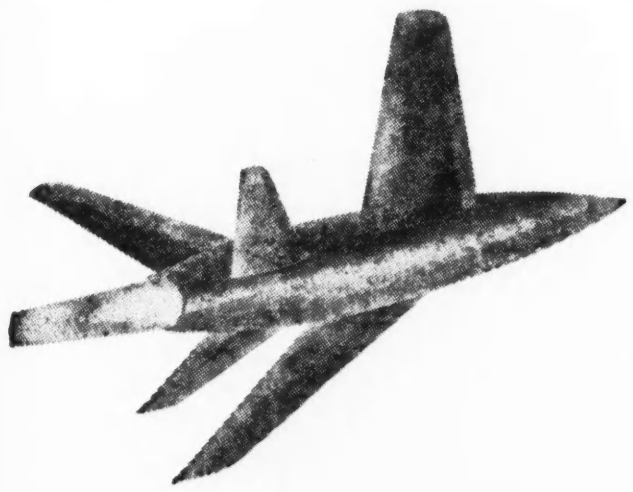
Sulfur monochloride, 55-gal. dms., c.l., frt. equald ..... lb. .04 - —
l.c.l. same basis ..... lb. .04¾ - —
tanks, same basis ..... lb. .03¾ - —
Sumac leaves, 28% tannin, bgs., ex-dock ton.126.00 -128.00
ground, bgs., ex-dock ton.122.00 -124.00
Superphosphate, run-of-pile, under 22% a.p.a pulv., bulk, c.l., Balto., unit-ton .88 .91
Carteret, N J unit-ton. .88 .91
triple 48% or more a.p.a. pulv., bulk c.l. East Tampa, Fla. unit-ton .98 - —

T

2,4,5-T dms. c.l. works, frt. equald lb 1.18 - —
l.c.l., same basis ..... lb 1.25 - —
Isopropyl ester, dms., c.l., works, frt. equald lb 1.24 - —
l.c.l., works lb 1.29 - —
Talc, dom. ord. Calif. grd., bgs., c.l., works ton.33.00 -39.50
Vermont off color grd., bgs., c.l., works ton.19.40 - —
l.c.l., works ton.37.00 - —
fibrous, New York, grd., bgs., c.l., works ton.28.00 - —
l.c.l., works ..... ton.31.00 -36.00
Talc, dom., fibrous, New York, 99.5% 325 mesh, bgs. c.l., works ton.31.00 - —
l.c.l., works ..... ton.34.00 - —
99.95% micronized, bgs., works ton.38.00 - —
imp. Canadian grd., bgs., c.l., mines ton.20.00 -35.00
Tallow, edible, tanks, dlvd ..... lb. .12 - .12½
inedible, extra, tanks, dlvd ... lb. .07⅝ - —
fancy, bleachable tanks, dlvd., lb. .07¾ - —
guaranteed, dms., f.a.s.lb. .09⅜ - —
No. 1, tanks, dlvd ..... lb. .06⅞ - —
special tanks, dlvd ..... lb. .07¼ - —
sulfonated, 25%, bbls., l.c.l lb. .08¾ - .09
50%, bbls., l.c.l. ..... lb. .09¾ - .10¼
Tankage, animal, feeding, 9-11% ammonia, bulk .. unit-ton. 5.00 - —
Chicago, bulk ... unit-ton. 6.00 - —
Tapioca flour, Brazilian, bgs., ex whse lb. .10½ - .11
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis ..... gal. .50 - .51
tanks, same basis ..... gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis ..... gal. .57 - .58
tanks, same basis ..... gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis ..... gal. .73½ - .74½
tanks, same basis ..... gal. .62½ - —
Coal (see Coaltar).
Tartar, emetic (see Antimony-potassium tartarate)
Terpine glycol ether, dms., c.l., works lb. .23½ - —
l.c.l. works ..... lb. .25½ - —
tanks, works ..... lb. .22 - —
Hydrate, NF cryst., powd., fib. dms lb. .67½ - .74
Terpinol, dms., l.c.l., dlvd E lb. .23¾ - —
extra, dms ..... lb. .41 - .60
prime, dms ..... lb. .30 - .45
Terpinyl acetate, extra, cns. dms. lb. .60 - .75
prime, dms ..... lb. .55 - .70
Propionate, dms ..... lb. 1.75 - 9.00
Terra alba (see Gypsum).
Testosterone USP, 100-gm. lots, bots gram. .70 - —
Propionate USP, 100-gm. lots, bots gram. .68 - —
Tetrachloroethane, dms. works lb. .14½ - —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech (see Perchloroethylene).
USP, 55 gal. dms., works .... lb. .20½ - .21½
smaller dms., works ..... lb. .23½ - .25
Tetraethyl orthosilicate dms., c.l., dlvd. E lb. .61½ - —
l.c.l., dlvd. E ..... lb. .62½ - —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .49 - —
l.c.l. dlvd. E ..... lb. .50 - —
tanks, dlvd. E ..... lb. .47 - —
Tetrahydrofuran, dms. c.l., or t.l., works lb. .36½ - —
l.c.l. or t.t.l., works ..... lb. .37 - —
tanks, works ..... lb. .35 - —
Tetrapotassium phosphate (see Potassium phosphate).
Thallium metal, dlvd ..... lb.12.50 -15.00
Sulfate, 99%, bots., dlvd ..... lb. 8.00 -13.00
Theobromine, NF, fib. dms. ....lb. 4.60 - —
And sodium acetate, USP, fib. dms lb 4.00 - —
Sodio-Salicylate, NF, fib dms lb 3.30 - —
Theophylline, anyhd. or USP, 100-lb. dms lb 3.65 - —
Thiamine hydrochloride, USP, regular, fib dms kilo.60.00 - —
ampule grade, fib dms kilo.62.00 - —
Mononitrate, USP, fib dms kilo.62.00 - —
Thiocarbanilide, dms. ton lots .b .72 - —
less tons lots ..... lb. .74 - —
Thiodiphenylamine (see Phenothiazine)
Thiourea, tech., bgs., t.l., frt. alld. lb. .33 - —
l.c.l., frt. alld ..... lb. .35 - —
Thorium nitrate, purif., fib dms., 100-lb lots or more, works lb 3.50 - —
dl-Threonine bots., 1-kilo lots. kilo.450.00 500.00
Thymol, fib. dms ..... lb 2.50 - 2.75
Iodide, NF, dms. ..... lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Oxide (see Stannic oxide).
Metal (Straits) ..... lb. 1.07 - —
Sulfate (see Stannous sulfate).
Tetrachloride anhyd., (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk-resistant, bgs. c.l., dlvd lb. .24½ - —
l.c.l., dlvd. ..... lb. .25½ - —
ceramic, bgs., c.l., dlvd.... lb. .22½ - —
l.c.l., dlvd. ..... lb. .23½ - —
reg., bgs., c.l., dlvd ..... lb. .22½ - —
l.c.l., dlvd. ..... lb. .23½ - —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla ton.120.00 - —
Niagara Falls, N. Y., c.l., ton.137.50 - —
5-ton lots ..... ton.142.50 - —
ton lots ..... ton.147.50 - —
rutile nonchalking, bgs., c.l., dlvd. E lb. .26½ - —
l.c.l., dlvd. E. ..... lb. .27½ - —
Milled titanium dioxide, $7.50 per ton higher.
Hydride, cns., works ..... lb. 7.95 9.00
Pigment, calcium-rutile base, reg., bgs., c.l., dlvd ..... lb. .09¼ - —
l.c.l., works ..... lb. .09¾ - —
high-tinting, dms., c.l. ..... lb. .09 - —
l.c.l. ..... lb. .09½ - —
Tetrachloride, tech., dms., c.l., works lb. .40¾ - —
l.c.l. works ..... lb. .43¾ - —
tanks, works ..... lb. .39¾ - —
dl-a-Tocopherol, bots. ..... kilo.149.65 - —
Acetate ..... kilo.136.00 - —
Acetate ..... kilo.185.00 - —
Acid succinate ..... kilo.165.00 - —
o-Tolidine, base, paste, kgs., 100% basis lb. 1.35 - —
dry, kgs., 100% basis ..... lb. 1.40 - —
Hydrochloride, paste, kgs., 100% basis lb. 1.35 - —
Tolu balsam, cns ..... lb. 4.85 - —
Toluene (see Toluol).
p-Toluenesulfonamide, powd., dms., works lb. .70 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l. same basis ..... lb. .80 - —
tanks same basis ..... lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l. same basis ..... lb. .24 - —
tanks, same basis ..... lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid dms. frt. alld ..... lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa ..... gal. .32 - —
Birmingham dist..... gal. .32 - —
Chicago, dist..... gal. .32 - —
Cleveland dist..... gal. .32 - —
Geneva, Utah..... gal. .26 - —
Johnstown, Pa..... gal. .32 - —
Lackawanna, N. Y... gal. .32 - —
Lone Star, Tex..... gal. .33 - —
Lorain, Ohio ..... gal. .32 - —
Middletown, Ohio.... gal. .33½ - —
Minnequa, Colo. ..... gal. .32 - —
Philadelphia dist..... gal. .32 - —
Pittsburgh dist ..... gal. .32 - —
Sparrows Point, Md. gal. .32 - —
Terre Haute, Ind ..... gal. .35 - —
Youngstown, Ohio ..... gal. .32 - —
Petroleum, indust., 2° tanks, works:—Albany, N. Y. gal. .35 - —
Bayonne, N. J..... gal. .34 - —
Baytown, Tex..... gal. .33 - —
Chicago, Ill. ..... gal. .35 - —
Detroit, Mich .. .... gal. .35 - —
Houston, Tex..... gal. .33 - —
Philadelphia, Pa..... gal. .34 - —
Providence R. I..... gal. .35 - —
Wood River, Ill. ... gal. .35 - —
2,4-Tolylenediamine, cryst., fib. dms., c.l., frt. alld lb. .97 - —
l.c.l., frt. alld ..... lb. 1.00 - —
powd., fib. dms., same basis ... lb. 1.00 - —
Tonka beans, Angostura, cks. ...lb. No prices.
Brazilian, Surinam, cs ..... lb. 1.35 - —
Totaquine 100-oz. lots, cns ..... oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .21 - —
l.c.l., l.t.l., works ..... lb. .27 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis ..... lb. .40 - —
tanks, same basis ..... lb. .37 - —
Tributyl citrate, tech., non-ret., dms., c.l., frt. alld. E. of Denver lb. .42½ - —
l.c.l., frt. alld. E. of Denver, lb. .43½ - —
tanks, frt. alld. E. of Denver, lb. .40 - —
Phosphate, dms., c.l., works... lb. .52½ - —
l.c.l., same basis ..... lb. .53½ - —
tanks, same basis ..... lb. .50 - —
Tributylamine, dms., c.l., works. lb. .67½ - —
l.c.l., same basis ..... lb. .68½ - —
tanks, same basis ..... lb. .65 - —
Trichlorobenzene, dms., c.l., frt. alld. E lb. .14½ - —
l.c.l., frt. alld. E ..... lb. .15½ - —
tanks, frt. alld. E ..... lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .12½ - —
l.c.l., dlvd. E. ..... lb. .14½ - —
tanks, works, frt. equald .. lb. .11¼ - —
1,1,1-Trichloroethane, dms., c.l., works lb. .13½ - —
l.c.l., works ..... lb. .14¼ - .16¼
tanks, works ..... lb. .11½ - .12¼
Tricholine citrate, 85% soln., ret. chvs. works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .37 - —
l.c.l., dlvd ..... lb. .38 - —
tanks, dlvd ..... lb. .34½ - —
petroleum, dms., c.l., dlvd lb. .36½ - —
l.c.l., dlvd. ..... lb. .37½ - —
tanks, dlvd. ..... lb. .34½ - —
Triethanolamine, dms., c.l., dlvd. E lb. .24½ - —
l.c.l., same basis ..... lb. .25½ - —
tanks, same basis ..... lb. .22 - —
Triethylamine, dms., c.l., works, dlvd E lb. .49 - —
tanks, same basis..... lb. .46½ - —



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Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .45¾- —
i.c.l. frt. alld. E. of Denver, lb. .46¾- —
tanks frt. alld. E. of Denver, lb. .43¾- —
Phosphate, dms., c.l., dlvd ..... .40½- —
i.c.l., dlvd ..... lb. .41½- —
tanks same basis ..... lb. .38 - —
Triethylene glycol, dms., c.l., dlvd, E lb. .21 - —
i.c.l., same basis ..... lb. .22 - —
tanks, same basis ..... lb. .18½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .51½- —
i.c.l., dlvd. E. ..... lb. .52½- —
tanks, dlvd. E. ..... lb. .49 - —
Tri-isopropanolamine, dms., c.l., dlvd. E lb. .23¼- —
i.c.l., dlvd. E. ..... lb. .24¼- —
tanks, dlvd E ..... lb. .20¾- —
Trimethylamine 25-40% soln., dms., c.l., works frt equald., 100% basis lb. .42 - —
i.c.l. works frt equald, 100% basis lb. .42½- —
tanks works frt. equald, 100% basis lb .33 - —
Trioxane pure dms., c.l., t.l. dlvd. E lb. .50 - —
i.c.l., dlvd. E. ..... lb. .51½- —
Tripentaerythritol, bgs., i.c.l., works. lb. .35 - —
Triphenyl phosphate bbls. c.l., frt. equald lb. .40 - —
i.c.l. frt. equald lb. .41 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld E lb. .20¼- —
i.c.l., frt. alld. E ..... lb. .21½- —
Tripopylene glycol prices 1c. per lb. higher in West.
Phosphate (see Sodium phosphate tribasic).
Tyrothricin, USP bots ..... gram. .75 - .85
dl-Tryptophane, fib ctns., works. kilo.165.00 - —
Tungsten metal powd. 2-5 microns, dms., works lb. 4.85 - —
Turpentine, gum (see Protective Coatings market, Naval Stores)

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton.120.00 - —
i.c.l. dlvd E, ex whse ton.140.00 - —
45% N agricultural, bgs., c.l., (30 tons), dlvd. E ton.105.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W Va ton.126.00 - —
Urea-ammonia, liquor, C grade, tankcars, same basis ton.124.50 - —
37 grade tankcars, same basis. ton.153.00 - —
Urethane, USP, dms..... lb. 1.45 - —
Uva-ursi leaves, bls..... lb 12 - .14

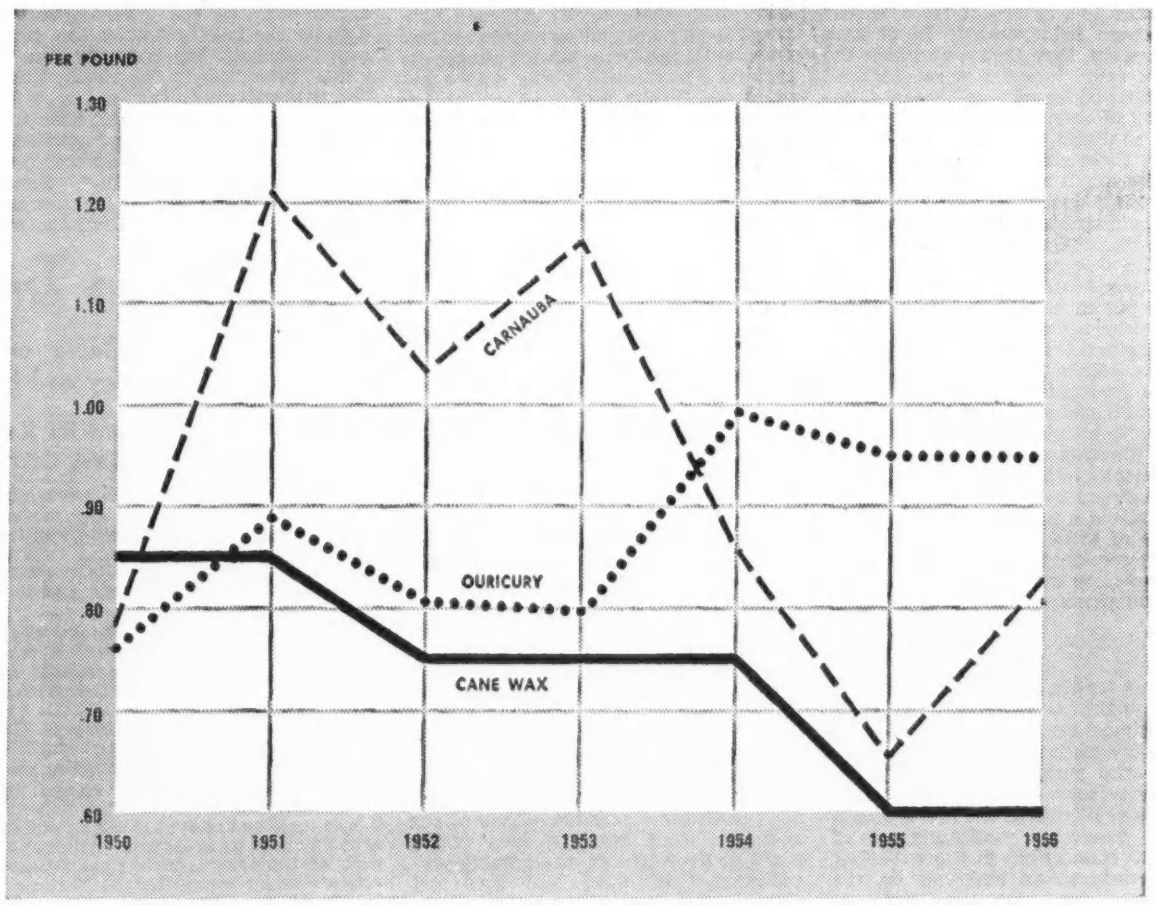
V

Valerian root, Belgian, bgs..... lb. .35 - —
Indian, bgs. ..... lb. .27 - —
dl-Valine, dms., works ..... lb.21.00 -27.50
Valonia beards, 40-42% tannin, bgs., ex dock ton.84.00 - —
cups, 28-30% tannin bgs., ex-dock ton.63.00 - —
extract, powd., 63% tannin, bgs., exdock, duty extra lb. .09½- —
Vanadium pentoxide, tech., dms., works lb. 1.28 1.33
Vanilla beans, Bourbon, tins ... lb. 9.00 - 9.50
Mexican, cuts, tins..... lb. 8.50 - 9.00
whole, tins ..... lb. 9.25 - 9.75
Tahiti, cs ..... lb. 7.00 - —
Vanillin ex eugenol, tins, 25-lb. lots. lb. 6.50 6.75
smaller lots ..... lb 6.90 - 7.25
ex lignin, dms., 100-lb. lots... lb. 2.75 - —
smaller lots ..... lb. 2.80 - 2.85
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .19 - —
i.c.l., dlvd. E. ..... lb. .20 - —
tankcars, dlvd. E ..... lb. .16½- —
tanktrucks less than 4,000 gal., dlvd. E lb. .17½- —
n-Butyl ether, tech., dms., c.l., works lb. .28 - —
i.c.l., works ..... lb. .30 - —
tanks, works ..... lb. .27 - —
Chloride monomer, tanks, works lb. .11 - .13
Ether, USP, anesthesia, bots., 50 c.c., hospitals..... bot. 1.12 - —
75 c.c. ..... bot. 1.56 - —
tech., dms., c.l., works..... lb. .26 - —
i.c.l., works..... lb. .28 - —
tanks, works..... lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .28 - —
i.c.l. works ..... lb. .30 - —
tanks, works ..... lb. .27 - —
Methyl ether, cyls., works ..... lb. .23 - —
tanks, works ..... lb. .20 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period full refund is made.
Propionate monomer, dms., c.l., dlvd. lb. .49 - —
i.c.l., same basis..... lb. .50 - —
tanks, same basis..... lb. .47 - —
Trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms. to tanks, works lb. 1.36 - —
1 to 9 dms., works..... lb. 1.50 - —
tanks, works..... lb. 1.33 - —
Vinyltoluene, dms., c.l., frt. alld lb. .18½- —
i.c.l., frt. alld. ..... lb. .19½- —
tanks, frt. alld. ..... lb. .16 - —
Viosterol in nat. vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units..1,000,000 units. .02 - .04¾
in alcohol, lots of 1 billion USP units, 1,000,000 units. .025 - .05¼
Vitamin A acetate, syn., crystalline, beads 500,000 A units per gram gram. .07¼- —
dry, 500,000 units per gram, kilo lots kilo.67.50 - —
325,000 units per gram, same basis kilo.43.88 - —
250,000 units per gram, same basis kilo.33.75 - —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
liq., in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram, 1,000,000 units. .10 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
Vitamin B_1 (see Thiamine hydrochloride).
B_2, (see Riboflavin).
B_6, complex natural (see Rice bran concentrate and Yeast).
B_{12}, crystalline, 1-gram or 5-gram vials..gram.245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity. gram.185.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver Calciferol, and Viosterol)
D_2, dry 850,000 units per gram, kilo lots kilo.42.50 - —
less than kilo lots ..... kilo.45.00 - —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin)
H (see Biotin)
K Active (see Menadione).
K_1, 25 gram bots ..... gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls. .....lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.93 - —
25-49-lb. lots, N. Y. or Chicago, lb. 2.03 - —
5-24-lb. lots, cns., N. Y. or Chicago lb. 2.15 - —
Wattle bark, fair average, African, bales, ex dock ton.93.00 -96.00
merchantable bales, ex dock ton.91.00 -92.00
extract, liq., 35% tannin, bbls, lb. .08¼- .08½
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09⅞- —
S. Africa, 60% tannin, bgs., ex dock, duty extra..lb. .10 - —
Wax, amorph. (see Wax microcrystalline).
Bayberry, bgs ..... lb. .45 - .47
Bees, crude, African, bgs..... lb. .72 Nom.
Brazilian, bgs ..... lb. .72 Nom.
Central American, bgs.... lb. .68 Nom.
Chilean, bgs ..... lb. .72 Nom.
refd., USP, bleached, white bricks, 100-lb. ctns lb. .80 - .92
slabs, 100-lb. ctns .... lb. .79 - .81
yellow, bricks, 100-lbs. ctns. lb. .71 - .73
slabs,, 100-lb. ctns .... lb. .70 - .72
Candelilla, crude, bgs..... lb. .68 - .70
refd., bgs..... lb. .73 - .75
Powdered candelilla: 20 to 100 mesh, 7c. higher.
Carnauba, chalky, bgs., ton lots. lb. .70 - .71
North country No. 2, crude, bgs., ton lots lb. .75 - .76
refd., pure, bgs., ton lots lb. .84 - .85
No. 3, Ceara, crude, bgs., ton lots lb. .71 - .73
refd., pure, bgs., ton lots lb. .78 - .80
tech., bgs., ton lots lb. .70 - .72
Parnahyba, crude, bgs., ton lots lb. .72 - .73
refd., pure, bgs., ton lots lb. .81 - .82
Wax, carnauba, yellow No. 1, Ceara, bgs., ton lots lb. 1.42 - 1.44
Parnahyba bgs. ton lots lb. 1.44 1.46
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, cs ..... lb. .49 - .50
Microcrystalline, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb .11 - .12
Montan, dom., refd. bgs ..... lb. .27 .29
imp., crude, Bohemian, bgs lb. .26 .27
German, bgs lb No prices.
Ouricury, refd., pure, bgs..... lb. .89 - .91
tech., bgs ..... lb 85 Nom.
Paraffin (see P)
Spermaceti, blocks, cs..... lb. .30 .33
cakes cs. ..... lb 31 34
Sugar cane, dom., refd., slabs, 80 lbs ctns., works lb. .65 - .75
spot lb. 67¼- .72¼
White lead (see Lead, White).
White pine bark, rossed, bls lb. .18 .19
White precipitate, USP powd. dms., lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls lb. .20 - —
rossed, bls..... lb. .21 - —
Witch hazel, bark, bls..... lb. .16 .17
leaves, bls..... lb. .27 - —

—Continued on page 66



The Truth About Wax Prices!

The chart gives you a clear picture of the steady, dependable price structure of Cane Wax compared to the wide fluctuation of Carnauba and Ouricury which can create such serious buying problems. And that's not all, the world's largest group of wax scientists has recently developed cane waxes that offer users completely new opportunities for economy and standards of quality in their products. WARWICK WAX COMPANY offers you complete technical information and expert laboratory assistance in implementing these new waxes in your formulations.

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1. **THE ONLY VEGETABLE WAX** not subject to severe price fluctuation.
2. **THE ONLY VEGETABLE WAX** always free of adulteration.
3. **THE ONLY VEGETABLE WAX** produced with laboratory controlled uniformity.
4. **THE ONLY VEGETABLE WAX** produced domestically.
5. **THE ONLY VEGETABLE WAX** available for same day or overnight delivery no matter where you are.

FOR FURTHER INFORMATION, SAMPLES AND DATA, WRITE . . .

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Directed 1900-1942 by Harry J. Schnell

Incorporating Drug, Paint and Oil Trade, The New York Drug Bulletin, The Weekly Drug News, New York Druggists' Price Current, The Soap Makers Journal, Oil and Paint Review, and International Petroleum Reporter.

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Self-Reliance Is Needed

Under plans by the New York office of the Small Business Administration, a "Small Business Opportunity Meeting" for executives will be held in Waterbury, Connecticut, October 23. It will be sponsored by local chambers of commerce and industrial organizations. There is little reason to believe that it will differ to any extent from similar conferences held recently in Newark and Trenton, New Jersey, at which the woes of small business were discussed as matters of inequitable federal taxation and allotment of contracts. Insofar as available reports go, the objectives of those conferences were in line with the much too popular looking to and calling upon the federal government for assistance. The Trenton conference was styled "How to Do Business with the Government." The Newark conference heard all about how the federal tax on corporate earnings kept small business from getting big.

Along about the same time, the Small Business Administration reported that its loan grants to small companies in the first six months of this year totaled $51,644,869, compared with $30,332,390 in the previous six months, and that government contracts reserved for small business in the first half of this year involved a total of $304,864,585, an increase of more than $92,000,000 over the corresponding period of 1955. Nobody has come forth with the interestingly and pertinently informative data which would make it possible to compare the ratio of that contractual value to the capital investment of the receivers of the almost 4,000 contracts with similar data with relation to contracts with business that is officially regarded as big.

It is most desirable— in terms of free enterprise—that, in its commendable trend to go more and more into conference on its problems, small business direct its attention in larger degree toward the development and application of its inherent potentialities in respect of self-reliance and self-help. There is a clear possibility and more than a pessimistically created probability that its reliance upon government for what it needs will result in its debilitation as has so unfortunately been the experience under similar dependence on the part of farmers.

Small business has had a paying position in the service of mankind over many centuries. That position is still there—and available. But, in common with all aspects of man's existence, it has changed in required qualifications. However, despite the increasing evidence on all sides of a belief to the contrary, the assistance of a paternalistic centralized government is not one of those requirements. As it has been through all those centuries, small business will best be served in every way by relying upon itself and doing for itself whatever needs to be done.

Why Is OAP Shackled

Support for the more or less popular concept of the law as an ass can be discerned almost everywhere almost every day. It is equally prevalent with reference to the perplexing, almost inevitable conclusion that, especially in channels of litigation, the law is also a tortoise. There is a goodly measure of it in both connections in the muddling which passes as an endeavor on the part of the Office of Alien Property to get the federal government out of the chemical business in which it became involved as a part of its "winnings" (?) in World War II.

It is most difficult for a man accustomed to doing business in a business manner to comprehend why that government holding was not long ago disposed of. There has been a good market for it. The government acquired title to it under a valid enactment by the federal legislators. Its possession of the holding was confirmed in the results of the war.

There may be a law somewhere—there are all sorts of laws somewhere—that at least lends some measure of support to a contention that the risks that must be accepted in making an investment in a corporate enterprise do not include those which are incident to international warfare. But, must the government of a nation which, in fighting for the assurance of global welfare, imposed a risk of that category have its hands tied by that law? Why can it not dispose as it sees fit of what it won by way of that risk? If what it sees in that connection includes a convincing reason for easing the effects of the risk in certain respects, such easing could be done by way of equitable procedure out of what had been got through the disposal—by splitting the proceeds.

Nobody can adduce a logical reason why the determination of what, if any, distinction there is between risks of investment deriving from business competition and those concomitant with the more directly damaging effects of martial strife should be hung up—as it has been in the case of the chemical holding—in the courts for seven years. Certainly it should not require unqualified acceptance of the recently popular theory of guilt by association—or complete rejection of it—to find the answer to the question posed by the claims of a neutral self-identified partner in an enterprise controlled by an enemy. If justice in this case is so blind that the reaching of the necessary determination is going to take longer than it did to finish the underlying war, it is high time that it be provided with an adequately qualified seeing-eye dog.

Side Problems of Automation

Recent reports of experiments in industrial automation indicate that the innovation need not be fraught with threats of less employment or lower pay. The head of one of the major automobile manufacturers recently told a news conference that, since introducing automation on a large scale, his company was employing more workers than it had before and that costs of production had been lowered although there had been no reduction in wage scales.

In a report on the installation of automatic machinery in a large bakery, the United States Department of Labor said that capacity had been increased; losses through wastage and spoilage had been reduced; and so had unit labor costs, although wages had been raised. It said also that the president of the local union involved had said that, on the whole, the changes were advantageous to the workers.

Naturally; not all those who are in some way concerned with the all-over effects of automation are in agreement with those reports in respect of labor. There is still a feeling that changes in the status of workers are inevitable—that is obvious—and that the results will be to their disadvantage. Some of those with such views are seriously suggesting that the effects of automation (the dial system) on employees in telephone exchanges be thoroughly investigated by a properly qualified impartial group. They apparently are somewhat reluctant to accept the general statement that the expansion of services which is said to have followed the change provided satisfactory employment for all those displaced by dials.

One of the most discussed aspects of the growth of automation is that of training employees to meet the changes in their working methods which will be required for the handling of the new equipment. In the governmental report on the bakery automation, it was said that both the company and the union "take pride in the orderly transition that well established collective bargaining made possible" and that there had been a "minimum of friction to the workers as a result of favorable employer-employee relations." Similar conclusions are reported to have been reached in the settlement of the seriously threatening controversy over automation in British industries.

No report appears to have been made, however, on the reaction of workers who have been displaced by the one-man motor-operated lift-truck conveyor which one can see at almost any construction job, taking cement blocks from a trailer-truck and carrying them to a pile convenient for the builders. But, anyone who has tried to find someone to do a job in that line of labor knows that the supply of unemployed has not been increased by that displacement.

There is a big problem less directly now connected with automation. It has to do with the effects thereof on the educational requirements of office employees. It is already rather clear that such workers will have little, if any, need for more than a basic acquaintance with mathematics. There is reason to conclude that they will not even need to be able to read if the reported work on "sorter readers" turns out as is expected in the development of a device which will "read printing or coded material on checks and other forms used in connection with electronic data-processing machines."

It would seem that all that a worker in any position will need to know in another decade or so is how to think at least as fast as an automatic device operates. That poses a new and big job for grade-school educators; because thinking has not for some time got the attention once given to it in the general run of school curriculums. And, the "electronic brain" is not (yet) able to think initiatively.

Washington Talks It Over

Advertisers on Radio and TV Being Monitored by FTC For What They Say and How They Say It.

By Ralph L. Cherry
Chief, OPD Washington Bureau

The Federal Trade Commission is planning a crackdown on false and misleading claims being made in radio and television advertising. As the first step, the agency has just reorganized its investigating staff to broaden its checking of these advertising mediums.

Up until now it has been the practice of the FTC to police radio and television advertising by examining the scripts and continuities submitted by the stations. This was done on a sampling basis by a group of four commission attorneys. They have been checking chiefly for compliance with FTC orders and trade practice rules.

This group has now been merged into a new unit which will broaden its activities to monitor and spot check advertising at the time of its broadcast. Attorneys in each of the commission's eight branches also are under instructions to start monitoring the programs in addition to their other investigative work.

FTC officials have taken this new step because they have found that examination of the written script alone did not provide sufficient safeguards against deception. Although the wording of the advertising itself might be acceptable, the manner in which it is presented, both by radio and TV, can mislead the public.

Polio Vaccine Cost

The government appears to be in hot water again with members of congress over its Salk polio vaccine program. A subcommittee of the house has been looking into the cost of the vaccine to the government. Coming as it does just about three weeks before the national elections, there is a strong inference of politics behind the inquiry.

The complaint of the Democratic committee chairman seems to be that the government let itself be taken for a ride in not paying closer attention to the prices it was to pay for the vaccine before signing the purchase contracts. It should be recalled, however, that costs were a widely-fluctuating factor at that time last year. Most of the producers had no experience in producing the vaccine, and the government was still changing its mind on standards of production even after distribution had begun.

Mention was made in the hearings that $27 million had been spent for the drug in the "give-away" program. When the Democrats were first proposing the "give-away" program, they were urging the appropriation of more than twice this amount. The drug industry itself, along with the administration, succeeded in having it cut in half.

Flood Insurance Coming

It won't be long before chemical manufacturers, along with other types of businesses, will be able to get insurance against unpredictable losses resulting from floods. The first major step in this direction has just been taken by the establishment of a Flood Indemnity Administration within the Housing and Home Finance Agency.

Protection against loss from virtually every other major type of natural disaster is already obtainable, but until now no method had been developed of insuring against floods. Congress provided for the government to take the initiative in this undertaking through legislation signed into law last August 7. The new program is a venture into an untried field of risk protection.

It probably will be several months before any of the insurance will be written up. Organization procedures are just getting established and an unusual range and complexity of problems are involved. But at least manufacturers can look forward to a time when they can protect themselves against their assets being wiped out overnight.

PHS Gets Medical Library

A National Library of Medicine is now a part of the Public Health Service. It has been formed with the Armed Forces Medical Library as its nucleus "to assist the advancement of medical and related sciences and to aid the dissemination and exchange of scientific and other information important to the progress of medicine and to public health."

The Armed Forces Medical Library was founded in 1836 as the Library of the Surgeon General's Office, US Army. Today it is one of the largest and most important medical libraries in the world. It contains almost a million volumes, representing literature on medicine, dentistry, pharmacy and allied sciences in all languages and of all times. Its books are loaned to other libraries throughout the United States.

In administering the National Library of Medicine, the Surgeon General of the Public Health Service will be assisted by a Board of Regents consisting of ten persons to be appointed by the President and confirmed by the senate.

Heavy Chemicals

Prices effected October 1 had settled pretty well by now. Business this month was a bit slower than the economic activity of consuming industries would indicate, simply because buyers had laid in somewhat heavier inventories in September, against the announced higher price schedules for October 1. However, the end of the month saw buying activity getting back more nearly to normal, and certainly business volume was generally good.

Silver bullion advanced $\frac{3}{8}$c. per ounce during the week and tin straits moved up $1\frac{1}{2}$c. per pound. Tin salts advanced proportionately.

Manganese sulfate of the 65 percent fertilizer grade moved up in price by $8.05 per ton effective October 15. Only some aluminum chemicals were advanced in price in October, but these were in part reflections of the increased costs brought about when the aluminum strike, affecting 47 percent of the metal producing industry, was settled during the summer. Those items now carrying a higher price are aluminum chloride and aluminum fluoride. Higher costs were absorbed on the others, due in part to competitive conditions of supply and demand.

Sodium bifluoride was quoted 1 cent per pound higher in October than previous schedules had been. Caustic soda, soda ash, and chlorine continued to move in heavy increasing volume.

The American Pulp and Paper Association reported production for the week ended October 13 at 99.2 percent of theoretical capacity, as compared with the revised figure of 100.9 percent for the previous week, and 101.7 percent for the corresponding week of last year.

Acid, Hydrochloric — Supplies of this mineral acid were said to be adequate in the areas of high consumption. Supplies were overabundant in the South and Southwest, where by-product acid from organic chlorination operations yields relatively high acid output in an area where consumption rates are relatively low. Because it is too heavy to economically ship great distances at competitive price levels, market conditions were not good in the Southwest.

The Bureau of Census reported August production of hydrochloric acid, on a 100 percent basis, as totalling 69,109 tons, compared with the July output of 57,777 tons, an increase of 20 percent.

Aluminum Fluoride — Prices were advanced in October by 1 cent per pound. Under the new price schedule, carlot quantities were quoted at $16\frac{3}{4}$ cents per pound, and less than carlot quantities at $17\frac{3}{4}$ to $19\frac{3}{4}$ cents, depending upon quantity. Demand was described as well sustained, and supplies adequate.

Aluminum Sulfate — Demand and consumption was said to be more or less routine in the East. In the South and the Pacific Coast areas there has been considerable plant expansion, particularly in the direction of liquid alum for use in water treatment and in the production of paper.

Chlorine—Large volume output by all producers was necessary in order to keep well in line with the sustained high demand. Practically all consuming industries were moving in full swing, except those end uses which were highly seasonal. Plant operations were running near capacity. Total output the first six months of this year ran 1,906,052 short tons, as against the 1,585,415 short tons produced the first six months of last year.

August chlorine production amounted to 297,057 short tons, as compared with the revised figure of July which was 255,541 tons, representing a 16 percent increase for August over July.

Lime—Domestic sales of open market lime in July amounted to 519,932 short tons. According to the Bureau of Mines, this was a decrease of 26 percent from the June level. Chemical, building, and agricultural lime decreased moderately, while refractory lime output was off some 60 percent because of strikes at various producing and consuming plants.

For the first seven months of this year, quicklime production amounted to 4,066,268 short tons compared to 4,056,557 tons during the corresponding period of last year. Hydrated lime production in the first seven months of this year totalled 1,127,497 tons, as against the 1,128,566 tons turned out last year during the same period.

Of the total 1955 quicklime produced in the January through July period, 44,130 tons was used by agriculture, 143,952 by the building trades, and 2,510,135 tons in chemical and industrial use. In the same period of this year, agriculture accounted for 60,127 tons, building materials 94,663 tons, and industrial chemicals for 2,640,695 tons. Dead burnt lime in the first seven months of this year amounted to 1,270,783 tons.

PriceTrends

Advanced

Manganese sulfate, 65%, $8.05 per ton
Potassium stannate, 0.7c. per lb.
Silver bullion, $\frac{3}{8}$c. per oz.
Sodium stannate, 0.9c. per lb.
Stannic chloride, anhyd., 0.9c. per lb.
Oxide, 2c. per lb.
Stannous chloride, anhyd., 1.2c. per lb.
hydrous, 0.9c. per lb.
Sulfate, 1.2c. per lb.
Tin, straits, $1\frac{1}{2}$c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
102.52	102.32	101.96	100.15

For Current Prices see Page 9

Manganese Sulfate—Effective October 15, the price of the 65 percent fertilizer grade of manganese sulfate was advanced $8.05 per ton. Under the new price schedule, carlot quantities were quoted at $88.55 per ton, and less than carlot quantities at $95.55 per ton.

Soda Ash—There was no general scarcity of ash, although in certain localized areas producers were said to be hard pressed to keep up with demand. Glass operations were generally on the upgrade, but the pattern was not uniform. Glass container business was heavy in some areas and light in others, and the same thing applied to flat glass demand.

Soda, Caustic—Supplies were described as being adequate to meet all calls. Shipments of rayon and acetate yarn staple in September amounted to 86.6 million pounds, off 3 percent from August shipments, and down 15 percent from September a year ago.

Caustic demand from such industries as petroleum refining, pulp and paper, and other industrial uses was said to be steady at a well sustained volume. There were felt to be good prospects in the trade for an improved volume of business in rayon during the fourth quarter, but certainly the September figures shown above indicated that recovery from the heavy summer slump this year, had not gotten off to an early start.

August production of caustic soda on a 100 percent basis amounted to 293,085 tons of electrolytic and 34,322 tons of lime soda process material. These figures represented substantial increases over the July output of 251,313 tons of electrolytic and 31,706 tons of lime soda material.

Sodium Bifluoride—Demand continued at a well sustained level on this item, but overall business volume was small because of the nature of the product. Prices were advanced in October by 1 percent per pound. Under the new price schedule, carlots were quoted at $19\frac{1}{2}$c. per pound, and less than carlot quan ities at 19.9c. per pound.

Sulfuric Acid—While the demand from fertilizer manufacturers was still lagging, the increasing consumption patterns from other industrial end-uses was seen as a strong upward trend. Steel was operating at capacity and buying interest was high. The feeling was expressed in some quarters that the heavy operation of the steel industry, the output of new automobile models, and the generally higher level of all industrial operations might make 1956 a peak sulfuric acid consuming year, despite the steel strike.

Nonferrous Metals

Aluminum — Prices were unchanged from the 25 cents per pound in 50 pound pigs, and 27.1 cents in 30 pound ingots. Primary aluminum production in September amounted to 264,631,718 pounds, according to the Aluminum Association, as compared with 184,812,424 pounds in August, a month in which considerable production was lost due to strikes in which some 47% of the nation's capacity was idled. In September a year ago the

—Continued on page 36

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CALCIUM CHLORIDE
FLAKE
100 lb. and 25 lb.
Moisture-proof Paper Bags
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"I personally would be very much interested in your idea to print the annual high-low prices for the last five years for the basic materials you quote weekly in OPD. It would be quite useful to me."

Purchasing Executive

"When historical price data is wanted in a hurry, it is always very helpful to know that it has been made readily available by OPD."

Purchasing Executive

"As I have said many times the OPD is the only source of complete chemical prices in the United States. I hope you never quit publishing this kind of information."

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"As you know, the OPD is the industry standard price reference, and certainly the five year review would be a useful reference."

Market Research Manager

"Many is the hour I have pored over the frayed pages of the OPD, digging out historical data on prices. This was especially true in the days when we were preparing briefs and testimony on tariff matters. For years I had a filing cabinet full of old issues of the OPD. Considerable space would have been saved, and also time, had these data been available in book form such as you propose."

Chemical Market Research Executive

"Specifically answering your questions regarding a bound volume for next year, I think such a volume would be very useful to almost everyone. Actually we make it a practice now of having two years of this annual price revision section bound for our permanent files, as we think the information is very valuable to us as a reference tool."

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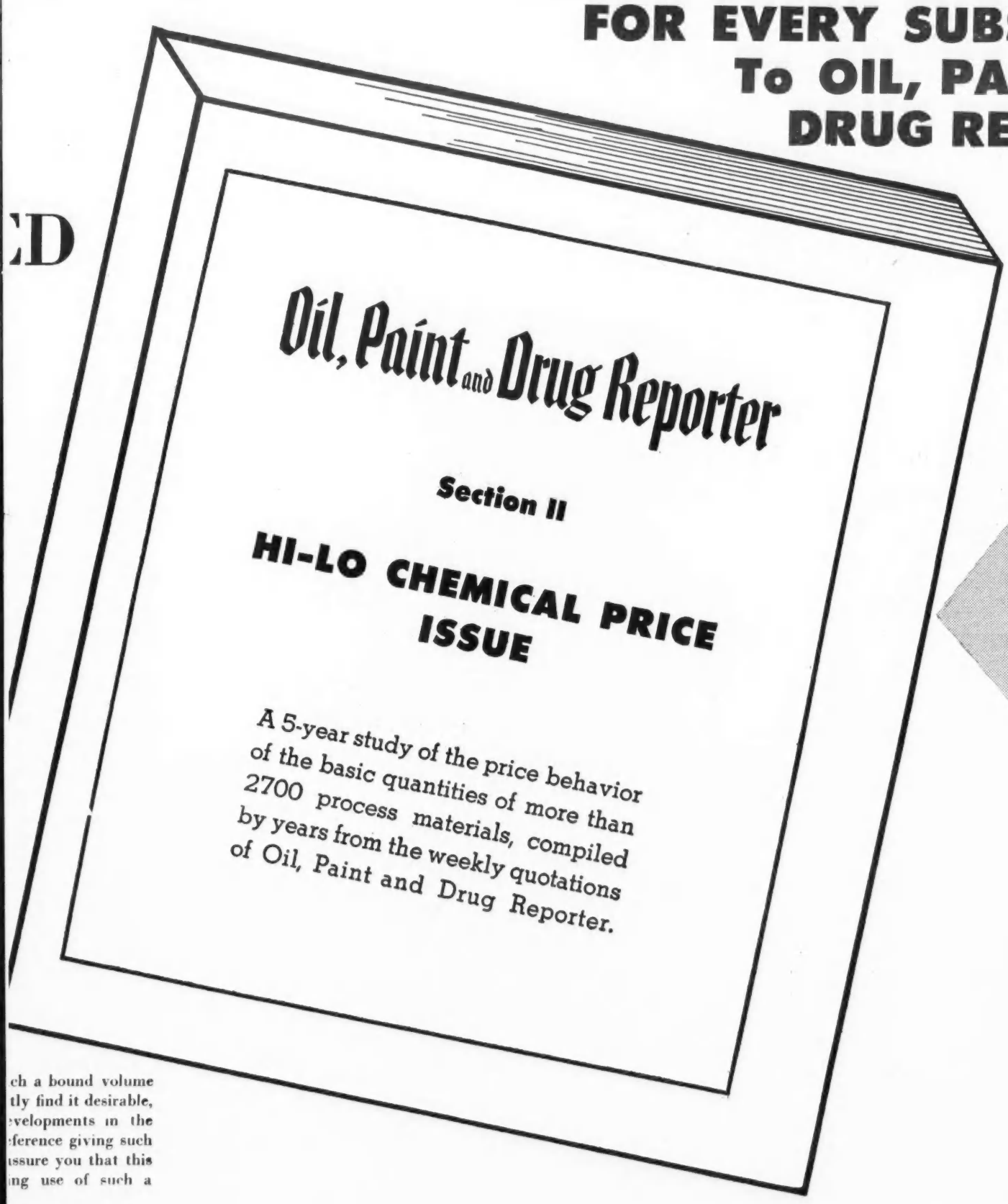
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Heavy Chemicals

—Continued from page 33

monthly production figures stood at 261,231,951 pounds.

Copper—According to the Copper Institute, September production of crude primary copper in the United States, including material coming in duty free from Cuba and the Philippines, amounted to 88,885, tons, as against the 91,282 tons turned out in August. This brought the total crude for the first nine months of this year to 855,447 tons, compared with the combined total output for US, and outside US areas, of 2,122,990 tons during the same period. Smelters dropped prices from 39 cents to 37 cents per pound. Primary production was unchanged at 40 cents.

Refined production in the US during September amounted to 112,484 tons, compared with the August refined output of 122,108 tons. This brought the US nine month total so far this year to 1,181,099 tons, while during the same period the combined US and outside US refined production amounted to 2,219,658 tons.

Selenium—Production of metallic selenium in August, according to the Bureau of Mines, amounted to 114,551 pounds. This was 14.8 percent higher than the July output of 99,781 pounds. Producers stocks at the beginning of August stood at 110,352 pounds, and at the end of August amounted to 124,983 pounds. General selenium imports into the United States in July were 23,517 pounds. Commercial grade selenium prices were unchanged from former levels in which producers quoted at $13.50 per pound and distributors at $15.50 per pound.

Silver—Bullion made a net advance during the week amounting to $\frac{3}{8}$c. per ounce. Current prices stood at 91$\frac{3}{8}$ cents per ounce.

Tin—Metal prices advanced 1½ cents per pound, and the various tin chemical salts moved up proportionately.

USDA Research Chemist Receives John Scott Medal

Dr. Daniel Swern, a research chemist at the Department of Agriculture's Eastern Utilization Research Branch laboratory at Wyndmoor, Pa., last week received the John Scott Medal Award from the Philadelphia Board of City Trusts for his inventions of new industrial chemicals from surplus animal fats.

The award, consisting of $1,000 and a copper medal, will be presented at a meeting of the Philadelphia section of the American Chemical Society at the Franklin Institute.

Dr. Swern's research work has resulted in the use of fats in plastics, paints, wire insulating materials, textile processing, and other industrial products and processes. Millions of pounds of fats now go into these uses each year, according to Dr. P. A. Wells, chief of the branch.

Belgian Chemical

—Continued from page 7

value of competing products, but such exports were only 1.64 times greater in 1955.

Five countries account for about 80 percent of Belgian imports of competing chemical products. Imports of these products from the Netherlands must be viewed within the framework of the Benelux common market, it is pointed out. Such imports are now 5.7 times greater than in 1948, when the common tariff was established, but Belgian exports to the Netherlands are only 1.7 times greater.

However, competing imports from the Netherlands are about 70 percent of the value of Belgian chemical exports to that country; both categories increased about 18 percent from 1954 to 1955. The Netherlands and Belgium are second suppliers to each other, West Germany being the principal source of imported chemicals for these 2 Benelux countries.

Donner-Hanna Promotes O'Neil

Edward V. O'Neil, sales manager of Donner-Hanna Coke Corporation, Buffalo, N. Y., has been promoted to assistant general manager. He has been with the company more than thirty-seven years.

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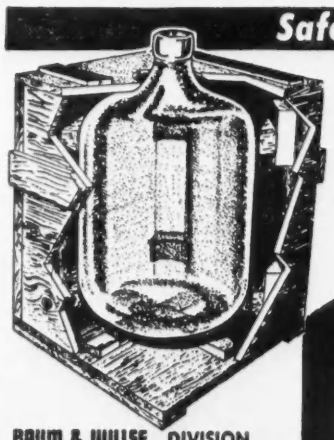

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Jobs & People

Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York—**Dr. E. J. Mills, jr.,** has been named to a newly-created staff position at Carbide's South Charleston, W. Va., plant in which he will be concerned with special technical assignments and the recruitment of technical personnel. **Dr. L. F. Theiling** and **V. T. Stack** have been appointed group leaders at South Charleston.

Catalin Corporation of America, New York—**Harry Krehbiel,** president of Catalin, has completed twenty-five years of service with the firm.

Eaglo Paint & Varnish Corporation, Long Island City, N. Y.—**A. P. Barberi** has been made general sales manager of Eaglo Paint & Varnish.

Esso Standard Oil Company, New York—**Forrest H. Blanding** has been named head of the newly-created distribution and exploratory research section in Esso's economic and marketing research division.

Evans Research & Development Corporation, New York—**Leonard J. Roth,** from Brooklyn College; **Anthony F. Lo Monte,** from Long Island University; **Edith T. Farrell,** from Notre Dame College, and **Barbara G. Schiffer,** from Rutgers University, have joined the Evans staff as junior research chemists.

General Electric Company's chemical and metallurgical division, Pittsfield, Mass.—**Burton V. Coplan** has been appointed silicon project supervisor at GE's chemical development department in Pittsfield.

International Minerals & Chemical Corporation, Chicago — **Jack von Mettenheim** has been named a sales representative in the midwest for International's potash division.

Merck Sharp & Dohme, division of Merck & Co., Philadelphia — **Louis L. Moyer** has been made an assistant to the quality control administrator by Merck Sharp & Dohme, while **Donald A. Cahill** has been taken on by the division as label control analyst.

National Chemical & Manufacturing Company, Chicago—**William C. Nicoll** has been appointed technical director of National Chemical's G. J. Liebich division, its paint manufacturing unit.

Pennsylvania Industrial Chemical Corporation, Clairton, Pa.—**Martin A. DeBernardinis** has been shifted to Picco's Jacksonville, Fla., sales office, while **Eugene C. Paschal** has been added to the staff of its Philadelphia sales office.

Pennsylvania Salt Manufacturing Company, Philadelphia — **Merle W. Semisch** has joined Pennsalt as southern district manager of "Isotron" refrigerants sales, with headquarters in Decatur, Ga.

Sherwin-Williams Company, Cleveland, Ohio—**Albert J. Kent,** manager of linseed oil and meal sales for Sherwin-Williams, has been with the paint firm for fifty years.

Stauffer Chemical Company, New York—**F. J. De Santis,** New England field representative for Stauffer, has been made New York district sales manager of the industrial chemical division. **Robert R. Dalrymple** has been named to succeed Mr. De Santis in New England.

Stein Hall & Co., New York — **George E. Prime** has joined Stein Hall at its southern textile laboratory in Charlotte, N. C. **Franklyn M. Rosenblum** has been transferred by the company to its Chicago adhesive laboratory.

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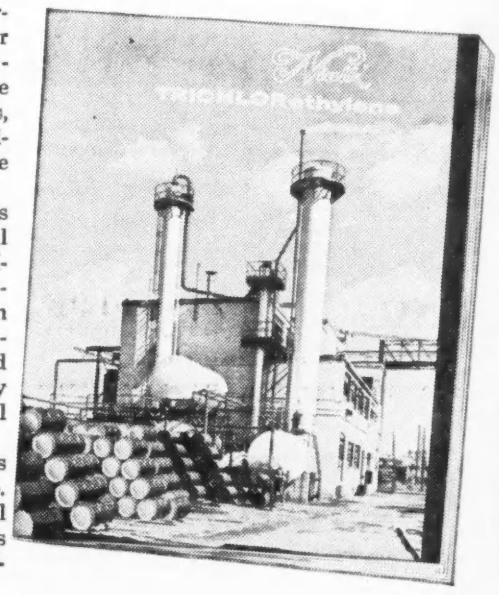

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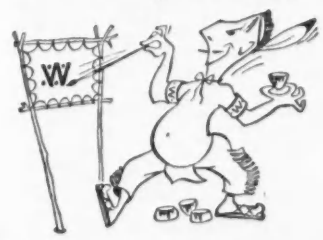

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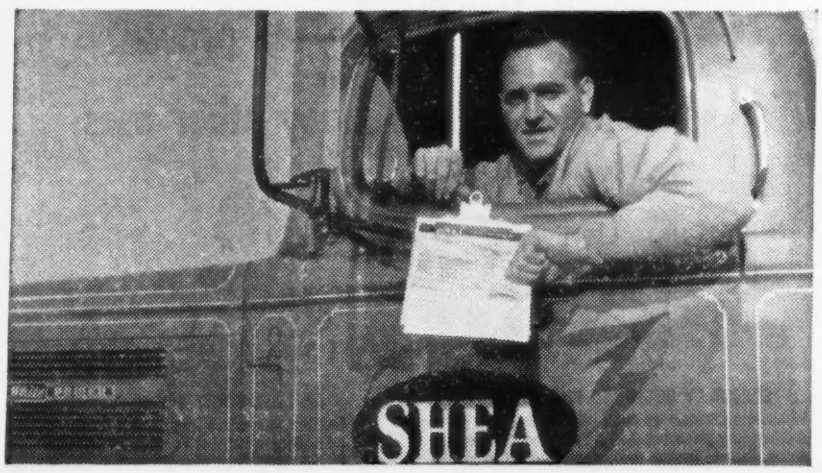

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Chemists' Club Library Campaign Gets Under Way

Dr. Lincoln T. Work, chairman of the Chemists' Club library committee, and Kenneth Klipstein, chairman of the group's sub-committee on finance, have announced the launching of the 1956-57 campaign for funds to continue the service and expansion of the library.

A booklet describing the facilities and services of the library is available. Interested persons may obtain copies by writing or phoning the club library.

Dr. Work's committee includes the following:—Dr. Robert L. Bateman, Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation; Leo B. Grant, Dow Chemical Company; William Healey, General Aniline & Film Corporation; John J. Miskel, Chas. Pfizer & Co.; Glenn W. Parsons, Food Machinery & Chemical Corporation, and Dr. William Sparks, Standard Oil Development Corporation.

Copper Came Closer To Balance in August

Refined copper supplies exceeded consumption and exports by 3,000 tons in August, the Business and Defense Services Administration announced last week. This compares with an excess of 54,000 tons in July.

The approximate balance between supply and demand in August was achieved primarily by a reduced rate of production and lower level of imports.

Consumptions and exports of copper base scrap in August amounted to 68,000 short tons, which was 37,000 tons over July but 8,000 tons less than August a year ago.

Monsanto Research Unit Posts to Wessel, Printy

Henry E. Wessel has been appointed manager of marketing research for the general development department of the research and engineering division of Monsanto Chemical Company, St. Louis, Mo.

John O. Printy, who had been manager of marketing research, has been appointed manager of commercial development in the department.

Chemical Growth

—Continued from page 3

chemical industry, he feels. For one thing, he foresees a successful economic process for the demineralization of sea-water into fresh water "to make the sea a reservoir capable of turning desserts into fertile fields." Dr. Thomas guesses that the necessary energy for this might be obtained from the sun.

The industry, the Monsanto president reveals, is looking forward to the discovery of inorganic polymers. He is of the opinion that such a development "will provide a whole new field for industrial enterprise—if only our explorers are successful in penetrating the many unknowns."

"For example," he says, "it seems reasonable to expect that out of this research will come new types of cements which can be hardened into artificial stones rivaling the beauty and durability of the finest polished granites and marbles."

Also a definite possibility for the future, he thinks, are chemicals which can be injected into soils and sands to make them hard and impenetrable. This, he suggests, may "bring an important new technic to the building of roads, tunnels, reservoirs and dams."

Other advances which the Monsanto president envisions include houses constructed almost entirely of plastics (Monsanto is building the prototype of such a house at Disneyland at Anaheim, Calif.), the harnessing of solar energy, and, by 1980, 100 million kilowatts of power generated from atomic energy.

Meanwhile, Dr. Thomas points out, scientists are exploring the basic nature of matter in an effort to achieve an understanding of "what goes on when corrosion, combustion and catalysis take place."

Knowledge of the mechanics of these actions will speed the automation of the chemical industry," he maintains, and will "increase the productivity of our labor by raising the level of its skill."

One of the patterns discernable in the chemical industry in its advancement involves cooperation with other industries, Dr. Thomas notes.

By way of illustration, he disclosed to last week's investment banking parley information about a new Monsanto product developed in cooperation with Esso Research & Engineering Company. The new product is trade-marked "Elastopar," and is described by Dr. Thomas as the first commercially practical modifier of butyl rubber.

What 'Elastopar' Does

This chemical is claimed to increase the strength and resilience of butyl rubber under standard processing methods. "Elastopar" is said to check the early tendency of butyl tires to develop excessive heat from absorbed road shocks. It is now in the hands of the rubber industry for large-scale tests.

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A detailed **report on cyanoethylation of cotton** has been jointly prepared by the Institute of Textile Technology, Monsanto Chemical Company and American Cyanamid Company. The cyanoethylation process is one that converts cotton into a new fibre by use of acrylonitrile. The report discusses procedures of cyanoethylation, economics of the treatment and commercial use based on pilot plant operations. Copies may be obtained by writing Cyanamid's petrochemicals department at 30 Rockefeller Plaza, New York 20; Monsanto's plastics division at Springfield, Mass., or the Institute of Textile Technology at Charlottesville, Va.

Aceto Chemical Company, 40-40 Lawrence street, Flushing 54, N. Y., is offering a new technical bulletin describing the properties of **dustless sodium lauryl sulfate in needle form** ("Solasol" needles).

1,5-Penanediol is described in a new six-page technical bulletin (F-40006) available on request from Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, 30 East 42nd street, New York 17. Information is given as to its properties, shipping data, chemical reactivity and applications. Literature references are included.

"Glycerine—Terms, Tests, Technical Data," a new nineteen-page booklet describing the commercial grades, definitions, specifications, test methods and shipping and storage requirements of glycerine is available on request from the Glycerine Producers' Association, 295 Madison avenue, New York 17. Grades of glycerine covered include USP, 99 percent CP, high gravity, dynamite, yellow distilled, saponification and soaplye crude.

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Petroleum Derivatives

Sales of aromatics and other solvents are moving upwards steadily in response to improved buying interest. While demand has not yet reached a seasonal summit, it has shown considerable advance over the summer lull. LPG's are also evincing a firmer tone due to seasonally increased use in anti-freeze gasoline and as a heating fuel. Production of these gases amounted to 475,390,000 gallons at plants and 191,856,000 gallons at refineries for a total July production figure of 667,240,000 gallons.

Producers are satisfied with current supply levels of solvents and diluents. None is particularly long at present and facilities are available for increases in production any time the market expands. Heavy imports of benzol are still coming into the market here but have not caused any upset in prices. These imports totaled 106,211 gallons in July, bringing the seven month total to 2,334,216 gallons.

Toluol supplies have been kept down to workable levels, primarily because any excess in production is being used in high octane automobile gasoline. Market observers expect this outlet to broaden as automobile manufacturers continue to increase the horsepower of new models.

Laminating grades of microcrystalline wax and crude paraffin encountered stronger demand in last week's market. Following October 1 price advances, these materials experienced a temporary lull while consumers worked off inventories accumulated prior to the price hike.

Solvents and Diluents

Benzol—An ample supply level has been maintained through steady domestic output supplemented by fairly heavy imports. While most trade sources foresee a sustained balance in this market, one steel maker expressed the view that tightness might develop in the year ahead. It was noted though that current plans for expansion in petroleum benzol capacity are extensive and will likely be sufficient to meet any increase in demand. Also, supplies can always be supplemented by increases in coaltar imports. These imports totaled 106.211 gallons in July, bringing the seven month total to 2,334,216 gallons.

Lacquer Diluents — Aliphatic evaporation rate equivalents of benzol and toluol were in use as lacquer diluents. The market was steady but at relatively smaller volume. Prices were firm and unchanged.

Mineral Spirits — This largest volume paint solvent moved steadily into the paint industry, and also enjoyed good business volume from certain other consuming industries. Demand for regular mineral spirits was high, whereas the consumption of Stoddard solvent, a mineral spirits meeting the Stoddard specification, was in relatively smaller demand.

Partial Aromatics—Long prevailing prices were firmly maintained despite keen competition for available buying outlets. Current buying interest is seasonally good and is showing a consistent upward movement. Supplies are plentiful.

Toluol—The long term supply problem in toluol is by no means solved, but producers have made a temporary adjustment by using excess material in high octane gasoline. Where facilities are available for running the byproduct directly into gasoline this has been a satisfactory method of disposal, but use of highly refined material for this purpose must be regarded as only a temporary measure. Sources close to the industry predict that in time most, if not all, producers will have facilities for direct mixing with gasoline.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended October 6 totaled 276,967,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 278,656,000 barrels for the preceding week, this represents a decrease of 1,689,000 barrels, comprising a decrease of 524,000 barrels in stocks of domestic crude and a decrease of 1,650,00 barrels in stocks of foreign crude.

PriceTrends

Advanced
None.
Reduced
None.
Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
105.71	105.71	105.47	104.32

For Current Prices see Page **9**

VM&P Naphtha—Demand has been edging higher slowly, reflecting increased production in most segments of the economy. Production capacity in this solvent is sufficient to meet any further upturn in consumer requirements. Prices were reported steady at prevailing levels.

Xylol—This solvent moved in good volume, from adequate but not excessive stocks into consuming channels. Prices were unchanged from those which have prevailed over recent months, and no change was expected for the balance of the year.

LPG's

Light pressed gases turned out in July amounted to 475,390,000 gallons at plants and 191,856,000 gallons at refineries, for a total July production figure of 667,246,000 gallons.

Butane—Prices in group 3 have held steady at 5c. per gallon, tankcars. Los Angeles supplies were tight, and as a result, the price continued firm at 6.9c. per gallon. East coast supplies are adequate currently but local shortages might develop with the seasonal rise in demand when winter weather sets in.

Propane—Demand from heating fuel outlets has already begun to liven, but so far it has placed no strain on supplies. Industry sources expect that production will be sufficient to match demand during the coming winter.

Waxes

Microcrystalline—Quotations on laminating grades were firm at advanced levels established October 1. Buying interest has begun to pick up following the lull that set in after the price increase. Supplies are at regular seasonal levels. Sales in the export market moved evenly in response to routine demand.

Paraffin—Crude scale paraffin was advanced ½c. per pound October 1, while quotations on refined material were held steady at prevailing levels.

Miscellaneous

Crude Oil—The daily average production of crude oil and lease condensate for the week ended October 5, 1956, was 7,021,650 barrels of which 116,950 barrels were lease condensate mixed with crude oil losing its identity as such. Reports received from refining companies indicate that the industry as a whole ran to stills on a Bureau of Mines basis approximately 7,697,000 barrels of crude oil daily and produced 26,687,000 barrels of gasoline; 2,096,000 barrels of kerosine; 13,268,000 barrels of distillate fuel oil and 7,718,000 barrels of residual fuel oil during the week; and had in storage 176,000,000 barrels of finished and unfinished gasoline; 33,243,000 barrels of kerosine; 151,805,000 barrels of distillate fuel oil and 47,299,000 barrels of residual fuel oil on October 5, 1956.

Actual data for July show a crude production of 7,090,000 barrels daily, an increase of 27,000 barrels daily in stocks of domestic crude oil, and an indicated demand for domestic crude oil of 7,064,000 barrels daily. Actual crude runs in July averaged 8,014,000 barrels daily, including foreign crude runs of 1,028,000 barrels daily. Current data for August indicate total crude runs of 7,980,000 barrels daily, including foreign crude runs of 965,000 barrels daily. The estimated demand for domestic crude oil in August amounts to 7,077,000 barrels daily with an estimated crude production of 7,106,000.

SAACI Hears Plea to Aid Reserve Program

—Continued from page 5

Company, Wilmington, Del., stressed the importance of planning ahead.

Planning Ahead in Sales

Only through conscious planning, Mr. Brown declared, can a chemical salesman make fullest use of his most valuable asset—time.

The Hercules executive pointed out that of 2,500 working hours every year, the average salesman has at his disposal only about 900 hours, or roughly one-third of that time. During the other two-thirds, he said, the salesman is "tooling up" for his job.

A planned sales program, Mr. Brown explained, has three major parts—the long-range plan covering any convenient period from three months to five years, the short-range phase which is generally for a week's schedule and the immediate plan covering face-to-face contact with the buyer.

The long-range plan, he indicated, involves forecasts of activity, office routine and the development of a suitable call pattern.

Most important thing in short-range planning, Mr. Brown continued, is the question of properly preparing for a sales call.

A well-planned call, he maintained, should never be made "without thorough knowledge of the customer's past purchasing record, of recent complaints, of special requirements or considerations which must be met."

Mr. Brown felt that too little attention is given to the final phase of a sales program—the interview with the buyer.

A salesman should consider, he suggested "how to present the pertinent facts, at what point to make key observations, in what sequence to ask questions and, most importantly, the plan to bring the sales discussion to a prompt and satisfying conclusion."

Transportation and Sales

The handling of transportation problems should be left to experts, C. H. Beard, general traffic manager of Union Carbide & Carbon Corporation, New York, told SAACI. He advised the chemical salesmen to learn all they can about the subject, but warned them not to be traffice managers themselves.

Mr. Beard pointed out that the traffic department tries to serve the sales department "in broadening markets for manufactured products and in extending competitive penetration." It, therefore, must perform "many so-called routine duties and some that are not so routine," he said.

Even in such a routine job as providing transportation rates, he noted, "there are many instances of highly complicated tariffs or rate schedules, requiring an experienced traffic man to interpret them.

But, he went on, this is only the beginning, adding that other decisions involve the choice of route and method of transportation. Also, he said, a follow-up check should be made to see whether the shipment has been entirely satisfactory to the customer, and this might concern such things as overcharges and claims for damage.

Traffic Department Functions

Traffic departments in chemical companies, Mr. Beard continued, are also charged with the responsibility of keeping their managements posted on motor carrier rates, rules for the transportation of hazardous materials, container and labeling requirements and the safe handling of dangerous commodities.

Operation and maintenance of tankcars and barges are also usually given over to the traffic department, he added.

"The determination of the proper classification and freight description of current and new products can only be accomplished by an experienced traffic man," the Union Carbide executive contended.

He also called attention to the fact that much of a chemical traffic manager's time is taken up with negotiating rates with the various carriers.

Mr. Beard urged the chemical salesmen to refer terms and conditions in sales contracts to the traffic manager to find out whether he can operate under them without difficulty.

Finally, he cited a relatively new function of the traffic department—the making of distribution studies.

"Here," he said, "the traffic manager may readily develop from reports he has received from plants or accounting departments, that the company is serving certain markets from the wrong plant, insofar as transportation economics and service is concerned."

Adoption of Customer's Viewpoint

J. Douglass Kirk of the Sales Analysis Institute of Illinois, Chicago, advised the chemical salesmen to learn how to think and talk from the viewpoint of their individual customers. This, he said, would eliminate many sales obstacles.

Mr. Kirk felt that among the things that stand in the way of sales are customer habits, fear, price, competition, lack of information and difficult personalities.

"To overcome customers habits," he told the chemical salesmen, "you must show them how their conditions can be sufficiently improved by your idea.

"To overcome fear," he continued, "you must give them enough technical data and evidence (experience of others) to convince them that their fears are unfounded.

"To overcome price," Mr. Kirk suggested, "you must educate your customer to appreciate that the benefits of your idea, both tangible and intangible, are worth the extra money.

"To overcome competition," he declared, "requires the planned use of actions and works which will establish friendship and favorable attention and then follow up with reasons why your idea will further improve the customer's conditions.

"To handle the difficult personality," Mr. Kirk concluded, "demands an attitude of tolerance on your part, control of your own emotions and then convincing presentations which show the difficult person how his objectives in life or on his job will be easier to reach with your idea."

Texaco Research Center Observes 25th Anniversary

Texas Company's research center in Beacon, N. Y., celebrated its twenty-fifth anniversary last week.

The research installation was begun in 1931 in a building which had been a part of an old woolen mill. There were 125 employes. Today the installations occupy a 187-acre site, and there are more than 1,100 employs.

Most recent addition to the Beacon plant is a new wing on the administration building to house the headquarters of the research and technical department, which moved to the center earlier this year from New York city.

Wyandotte Names Frisch

Dr. Kurt C. Frisch has been appointed director of application research in the research department of Wyandotte Chemicals, Wyandotte, Mich. He succeeds Maurice G. Kramer, who now holds the same post in the new research facilities of the J. B. Ford division.

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Aliphatic Organics

Molasses prices rose again last week, up 1½ cents per gallon at New Orleans and 2 cents per gallon in New York. Quotations at New Orleans were mostly nominal, many distributors having withdrawn temporarily from the market. Trade was unsettled. Increasing buyer resistance to the higher prices was noted. Volume was off in Gulf markets. First sales of Louisiana blackstrap were reported. Drought in the southwest and plains states was resulting in increased slaughter of livestock and reduced consumption of feed molasses by feed mixers. Most mills were in operation, and new crop molasses would begin to appear on the market in volume this week, producers said.

Acrylic fibers continued to support demand for acrylonitrile undiminished from the level noted before higher prices went into effect at the first of this month. Producers said it was still too early to evaluate marketwise the effect of the new cyanoethylation process for producing a new fibre by modifying cotton with acrylonitrile. Steady demand for use in manufacture of nitrile-type rubbers was noted. Manufacture of adhesives and use as a bonding agent for brake linings were boosting demand by a small, but steady volume.

The Association of American Soap and Glycerine Producers reported a decline in producers' stocks of glycerine during August, despite a slight excess of imports over exports during that month.

Stocks of ethyl alcohol were down substantially in August, while production during that month was reduced only very slightly.

Demand for adipic acid remained steady at low volume.

Acrylonitrile — Trade, unhampered by the 1c. per pound price increase put into effect October 1, was thriving last week.

Acrylic fibres continued to provide the bulk of demand, and there were prospects for additional applications in this field. Acrylonitrile would be used to modify cotton to form another new fibre by the cyanoethylation process now under study. Trade sources said it was too early to evaluate the influence this process might exert on the acrylonitrile market.

Manufacture of nitrile-type rubbers sustained steady demand in fairly good volume. Numerous and diverse other applications, notably use in adhesives manufacture and as a bonding agent for brake linings, were adding substantially to overall demand.

Prices currently in effect were 23c. per pound in tanklots, f.o.b. shipping point with freight equalized with cost from the nearest competitive shipping point, 31c. per pound in carlots and 32c. per pound in less carlots.

Adipic Acid—The market on this item was routine, and demand was steady at a low volume. The price of material in carlots was reported at 32c. per pound, while less carlots were quoted at 34¾c. per lb.

Ethyl Alcohol — Figures on production, withdrawals and stocks of undenatured, completely denatured and specially denatured ethyl alcohol, complied by the Alcohol and Tobacco Tax Division, Internal Revenue Service, were as follows for the month of August this year and last:—

Price Trends

Advanced

Molasses, New Orleans, 1½c. per gal. New York, 2c. per gal.

Reduced

None.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
130.38	130.34	130.20	130.73

For Current Prices see Page 9

Net Production

	Gallons 1956	Gallons 1955
†Undenatured	38,200,993	36,262,727
*Completely denatured	11,557	37,908
*Specially denatured	19,758,655	21,102,030

Withdrawals

†Undenatured, tax paid	916,733	1,006,830
tax free	37,065,175	39,483,448
*Completely denatured	25,148	28,961
†Specially denatured	20,905,318	21,446,672

Stocks at End of Period

†Undenatured	43,576,432	38,560,100
*Completely denatured	10,006	18,812
*Specially denatured	7,345,839	8,363,901

* Wine gallons. † Proof gallons.

Materials used in industrial alcohol plants in August this year and last were reported by the Alcohol and Tobacco Tax Division as follows:—

	Pounds 1956	Pounds 1955
Corn and corn products	3,833,400	2,922,990
Rye and rye products	48,000	377,250
Malt and malt products	196,040	90,240
Wheat and wheat products	2,365,950	579,330
Sorghum grain and sorghum grain products	251,550	1,062,413
Total grain	6,894,940	5,032,775
Ethylene gas	9,411,735	9,975,862
Other materials	2,170	1,562

	Wine gallons 1956	Wine gallons 1955
Molasses	4,925,608	6,317,679
Ethyl sulfate	21,187,177	16,779,670
Sulfite liquors	25,841,100	25,796,200
Other materials	2,895,462	2,933,527
†Products used in redistillation	227,140	1,296,808

† Proof gallons.

Glycerine—Producers' stocks declined 559,000 pounds during August in terms of 100 percent glycerine content, the Association of American Soap and Glycerine Producers announced last week.

Figures reported by the association for August included production of 18,927,000 pounds, imports of 982,000 pounds and exports amounting to 895,000 pounds. Stocks were down to 63,234,000 pounds by the end of the month, as compared to stocks of 63,793,000 pounds at the end of July.

Disappearance was thus indicated to have been 19,573,000 pounds, or 646,000

Aliphatics Foreign Trade: August

Exports and imports of industrial aliphatic organics for the month of August along with the July figures, as reported by the Bureau of Census, and the 1956 cumulative totals were as follows:—

EXPORTS	Quantity	August	July	Total First Eight Months
Alcohols and glycols				
Butyl alcohols	lbs.	2,960,503	3,975,383	25,213,416
Ethyl alcohol and methylated spirits	lbs.	12,210	35,910	* *
Ethylene glycol	lbs.	393,030	9,009,722	35,119,228
Glycerine, 100 percent basis	lbs.	895,403	847,776	7,128,702
Methyl alcohol	gals.	73,343	109,389	* *
Propyl alcohols	lbs.	311,594	474,700	3,973,982
Butyl acetate	lbs.	269,479	2,472,526	7,309,709
Methyl ethyl ketone and methyl acetone	lbs.	683,445	585,181	5,978,493

* * No comparable data available.

IMPORTS	Quantity	August	July	Total First Eight Months
Acetone, MEK and homologues	lbs.	423,090	401,700	6,182,534
Acid, acetic (over 65 percent)	lbs.	286,440	105,830	6,334,680
Acetic anhydride	lbs.	295,260	223,630	2,221,280
Chloro (mono and thrichloro) acetic	lbs.	124,991	295,211	1,733,969
Formic	lbs.	34,030	94,049	764,803
Lactic (55 percent or more by weight)	lbs.	.....	.....	2,670
Alcohol, amyl, and fusel oil	.....	.....	.....	57,600
Butyl	lbs.	.....	.....	194,900
Ethyl	gals.	.....	2,896,540	8,906,770
Glycerine, crude	lbs.	1,226,878	673,181	13,402,557
Glycols, their ethers and esters	lbs.	75,678	47,320	262,837
Methyl, including wood alcohol	gals.	.....	50,431	171,171
Vinyl, including derivatives	lbs.	.....	.....	13,216,837
Tetrachloroethane	lbs.	1,000	.....	5,800
Trichloroethylene	lbs.	2,622,848	1,229,950	14,725,065
Vinyl acetate, unpolymerized	lbs.	3,183,200	2,551,300	25,870,390

Aliphatic Organics

pounds in excess of production during that month. The net decline in stocks inferred from this was partly offset by the excess of imports over exports, amounting to 87,000 pounds.

Hexamethylenetetramene — Production fell off in July, according to a recent compilation by the Tariff Commission, from 2,649,810 pounds in June to 1,817,931 pounds in the following month.

Methanol—The Tariff Commission reported synthetic production off from 128,722,521 pounds in June to 126,518,372 pounds in July.

Output of natural methanol, not reported for July, was 1,155,360 pounds in June, bringing total methanol production for that month to 129,877,881 pounds.

Molasses—Minimum prices rose 1½c. per gallon at New Orleans and 2c. per gallon in New York. Quotations ranged from 20c. to 23c. per gallon at New Orleans, mostly nominal. The New York quotation was 20c. per gallon.

The market was generally unsettled.

Many distributors had withdrawn temporarily from the New Orleans market.

Volume was off in the Gulf markets, as the first sales of Louisiana blackstrap were quoted at 21.2c. per gallon. Most mills were in operation, and producers said molasses from the new crop would begin to appear on the market in substantial volume this week.

Demand had weakened in the drought-scourged cattle country of the southwest and plains states, where slaughter of livestock had increased, reducing feed mixers' consumption of feed molasses.

Dealers noted growing resistance also to current prices. New Orleans prices a week earlier were 18½c. to 22c. per gallon, mostly 19c. to 20c., and 17½c. to 18c. per gallon in the week previous. New York quotations were 18c. to 18½c. per gallon two weeks ago, 18c. to 19½c. per gallon three weeks ago.

Oxalic Acid—Production at US plants rose from 1,628,360 pounds in June to 1,883,882 pounds in July, according to figures recently published by the Tariff Commission.

Pentaerythritol—July production represented a sharp decline from that of the month previous, figures recently published by the Tariff Commission revealed. Output amounted to 3,371,577 pounds in July, as against 5,443,126 pounds in the month previous.

Obituaries

K. Y. Benson

K. Y. Benson, director of sales training for Sherwin-Williams Company, Cleveland, Ohio, died October 15 in Bedford, Ohio. He was sixty years old. In the paint industry since 1913, Mr. Benson had at one time been president of his own firm, Benson Paint & Varnish Company, Birmingham, Ala. He also served as president of Aultcraft Paints, Ltd., Toronto, Ont.; as vice-president of Gilman Paint & Varnish Company, Chattanooga, Tenn., and of Nu-Enamel Corporation, Chicago.

Mr. Benson joined Sherwin-Williams as a merchandising counselor in 1936 and held several sales managerial positions before being named director of sales training.

At the time of his death he was vice-president of the Cleveland Paint, Varnish & Lacquer Association.

John C. Pickering

John Clark Pickering, retired mining engineer and former manager of tin mining interests of Antenor Patino in Bolivia, died October 11 in Fort Lauderdale, Fla. He was seventy-three years old.

George W. Young

George W. Young, president of Young Paint & Varnish Company, Fanwood, N.J., died October 13 in Plainfield, N.J. He was sixty-six years old.

Ellwood Clark, retired secretary to Herbert L. Pratt, former president and chairman of the board of Socony-Vacuum Oil Company, now Socony Mobil Oil Company, died October 15 in White Plains, N.Y. He was eighty-six years old. Mr. Clark joined the company in 1889 and retired in 1935.

Paul Lamar Fleming, president and chairman of the board of John B. Daniel, Inc., died October 8 in Atlanta, Ga. He was eighty-three years old. Mr. Fleming had been associated with the company for fifty-four years and had been chairman of the board for forty-two years.

William A. Randall, director of research of the division of antibiotics of the Food and Drug Administration, died October 13 in Washington, D. C. He was forty-nine years old. Mr. Randall was known for his investigations of antibiotics and he was co-author of a laboratory manual dealing with the subject.

Warren K. Woodward, manager of the Cleveland, Ohio plant of Reilly Tar & Chemical Corporation, Indianapolis, Ind., died in Cleveland, October 17. He was fifty-one years of age.

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PHS Appoints a Director Under Pollution Control Act

The Public Health Service has appointed Curtiss M. Everts to direct initial operation of the construction grants program authorized by the new water pollution control act.

Act provides for grants of $50 million during the current fiscal year to assist municipalities in the construction of sewage treatment works needed for pollution control and water conservation.

The program marks a new step by the federal government to further local and state efforts to control pollution of streams and conserve the nation's diminishing supply of usable water.

Mr. Everts, on leave from duties as chief sanitary engineer of the Oregon State Board of Health, will assist the Public Health Service during the next several months in launching the new construction grants program. He is also secretary and chief engineer of the Oregon Sanitary Authority, and secretary of the Oregon Air Pollution Authority.

AIChE Sets Plans

—Continued from page 7

cons of the question, with Dr. George G. Brown, dean of the College of Engineering, University of Michigan, and institute treasurer as moderator; "The Sales Engineer in Chemical Engineering," "Advancing the Automatic Control of Chemical Process Plants," "Filtration," "Low Temperature Technics," "Chemical Engineering in the Pulp and Paper Industry," "Laboratory Facilities for Nuclear Engineering Education," and "The Role of the Chemical Engineer in the Industrial Environment."

A symposium on sales engineering will be in two sessions, on December 11. Defining the sales engineer will be the subject of the initial session, with E. D. Kane, of Cuno Engineering Corporation, as chairman, and W. S. Berg, of Arthur D. Little, Inc., presiding. Another session will discuss the training of the chemical sales engineer, with Walter E. Hesler, of Swenson Evaporator Company, as chairman, and L. C. Johnston, of Brown Fintube Company, New York, presiding. A third session will discuss the performance yardstick of the chemical sales engineer. Mr. Hesler will also act as chairman of this session with J. J. Costigan, of Sharples Corporation, New York, presiding.

J. J. Martin, of the University of Michigan, will preside at the nuclear energy symposium on December 12. Seven papers will be presented on available laboratories in colleges and universities for studying nuclear engineering, and on reactors.

In addition to the outstanding technical program a number of special events are planned. These include:

The eighth annual institute lecture, "Engineering as a Profession," by W. K. Lewis, of Massachusetts Institute of Technology, Monday morning.

The annual business meeting at which 1957 officers and three-year directors will be announced.

The president's luncheon, at which Dr. Walter G. Whitman, president of A.I.Ch.E. will discuss current and future plans of the institute.

Presentation of the Professional Progress award lecture.

The awards banquet, which will be addressed by Adm. Arleigh A. Burke, Chief of Naval Operations, on "Applied Chemistry and the Navy of the Future," and presentation of the Professional Progress Award in Chemical Engineering, the William H. Walker Award and the Junior Award. Announcement will also be made of the winners in the 1956 student problem contest.

The organization also plans several events that are not strictly concerned with engineering. Among them is "An Afternoon With the Ichthyologists," as the Boston section of the Institute is known. This will feature talks by Wallace G. Strathern, Eastern Gas & Fuel Associates, Boston, on how to be human on the job, and by Capt. Francis Wilson and Chief Chemist Frank Stratton of the Boston Police Department on modern methods of crime detection.

CSMA Achievement Award Going to St. Louis Prof.

Dr. George F. Reddish, professor of microbiology and public health at St. Louis (Mo.) College of Pharmacy and Allied Sciences, will receive the 1956 Achievement Award of the Chemical Specialties Manufacturers' Association for technical contributions in the fields of public health, disinfection, and antisepsis.

The award, fifth of its kind to be made by CSMA, will be presented to Dr. Reddish at the association's 43rd annual meeting in Washington, D. C., December 4, at the Mayfair hotel.

New Drug Group Appoints

Dr. H. Sidney Newcomer has assumed the position of medical director of the New Drug Institute, where he will supervise grants for clinical research and evaluation handled by the institute both for new drug applications and to determine therapeutic efficacy.

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Agricultural Chemicals

The market as a whole showed little change in either interest or production, though it was noted that some small producing units, shut down during the summer months, have now started producing again. Some new interest was reported domestically in ammonium sulfate, while the buying abroad was strengthened by reports of bids by Pakistan for a supply of approximately 48,000 metric tons of this material, the greater tonnage to be supplied by U.S. producers Anydrous ammonia has remained unmoved in sales. The only price shifts were in the animal proteins market where blood and tankage out of Chicago went down 25c. per unit ton each. Curacao phosphate rock continued easy in the market, producers here reported, at the current listing of $48 per unit ton. The price shifted from $45 earlier in the year as the result of general cost increases.

PriceTrends

Advanced

None.

Reduced

Blood, Chicago, 25c. per unit.
Tankage, Chicago, 25c. per unit.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
108.29	108.31	106.30	110.78

For Current Prices see Page 9

Animal and Plant Foods

Ammonium sulfate—Bureau of Mines reports on this material noted the production for August had climbed 179.7 percent over the month previous to a level of 132,631,008 pounds. Production during July had been 47,424,655 pounds as compared with the August, 1955, production of 163,243,700 pounds. Production for the calendar year amounted to 1,299,034,000 pounds in 1955 and, todate for this year 1,171,442,152 pounds.

Sales for August, according to the Bureau of Mines, totaled 79,066,523 pounds, a rise of 75.9 percent over sales of the month previous. July sales had amounted to 44,953,800 pounds while August, 1955, sales had totaled 83,655,400 pounds. The annual sales figure for 1955 amounted to 1,313,846,400 pounds as compared with the 1956 figures, todate, which amount to 1,240,745,685 pounds.

Stocks at the end of August for ammonium sulfate totaled 343,492,044 pounds or 18.8 percent more than at the end of the month previous. July stocks stood at 289,169,279 as compared with the figures for August, 1955, of 298,854,981 pounds. Annual stocks at the end of the last December amounted to 298,854,981 pounds while annual figures for this year, to-date, totaled 343,492,044 pounds.

Ammonia Liquor—Production of this material during August, according to the Bureau of Mines, amounted to 2,637,706 pounds or 24.8 percent higher than that of the previous month. The figure for July was 2,114,312 pounds, while that of August, 1955, had been 2,831,300 pounds. The total annual figure for 1955 was computed at 22,019,100 pounds while this year, to-date, was tallied at 22,955,580 pounds.

Material sold during the month of August was computed at 1,507,793 pounds or 7.3 percent more than was sold during the month previous. Total material sold during July was 1,404,663 pounds while in August of the year previous, 1,554,300 pounds was sold. The annual tally for material sold in 1955 came to 12,383,200 pounds while this year has been computed, to-date, as 14,379,106 pounds.

Stocks on hand at the end of August, according to the Bureau of Mines, amounted to 2,958,710 pounds or 1.4 percent more than that of the previous month. Stocks on hand at the end of July amounted to 2,917,544 pounds as compared with 2,982,479 pounds at the end of August, 1955. The total figure for 1955 amounted to 2,982,479 as compared with the to-date tally for this year of 2,958,710 pounds.

Animal Proteins—Movement in this market was slow throughout last week with price declines reported in blood and tankage. Though New York blood stood fast in price, the Chicago listing fell 25c. per unit ton to a $5.75 quote. Tankage fell away 25c. per unit ton in Chicago listing. The spot quote is now $6 per unit ton.

Fishmeal and fishscrap were both reported easy on spot last week with supplies limited, demand slow and the market dull. Listings continued at $136 per unit ton for fishmeal and $132 per unit ton for fishscrap.

The other materials in this market, such as bonemeal and hoofmeal were all reported as quiet on spot with little activity of any kind and no price changes anticipated. The changes in tankage and blood were attributed, as is the quiet in the market, to the close of the packers strike a number of weeks ago. This brought about a plentitude of material in the market and thus the lack of interest and decline in listing.

Castor Pomace—This material continued unavailable on spot last week, dealers here reported. The listing remained nominal at $35 per unit ton.

Superphosphates—Stocks on hand at the beginning of October were computed by the Bureau of Census as 405,765 short tons while production for the month was tallied at 143,146 short tons. These figures compare with the 388,910 stocks on hand at the beginning of July and the 136,584 production figure for that month. Figures for August of the year previous were 291,246 and 136,990 short tons, respectively.

Shipments totaled 98,194 short tons against the 95,986 computed for July and the 89,683 tallied for August, 1955.

Material used in reporting plants, the Bureau noted, amounted to 49,391 short tons in August; 22,758 short tons in July and 48,915 in August of the year previous.

Stocks on hand at the end of the month totaled 407,485 short tons as compared with the 405,765 short tons at the end of July and the 292,176 on hand at the end of August, 1955.

Farm Chemicals Foreign Trade: August

Following are data compiled by the Census Bureau indicating volume of exports and imports of agricultural chemicals. Classified as ammonium nitrate mixtures are those containing 20 percent or more nitrogen. Figures for ammonium phosphates account only for that material intended for use as fertilizer. Superphosphate is classified as normal when a.p.a. is less than 25 percent, concentrated when a.p.a. is 25 percent or more. The term tons refers to short tons.

		August 1956	*Value*
EXPORTS			
Ammonium nitrate	lbs.	3,111,360	$103,134
Ammonium sulfate	lbs.	130,935,548	2,647,262
Phosphate rock, Fla., high grade hard rock	tons	1,669	29,315
Hard pebbles	tons	245,226	1,903,750
Others	tons	64,717	773,420
Potassium chloride	tons	39,946	1,314,119
Superphosphate, normal	tons	21,780	369,027
Concentrated	tons	5,003	265,111
Weed killers	lbs.	1,229,853	425,234
IMPORTS			
Ammonium nitrate, including mixtures	tons	26,517	$1,519,356
Ammonium phosphates	tons	9,299	646,901
Ammonium sulfate	tons	15,453	698,709
Blood, dried	tons	312	60,330
Calcium cyanide or lime nitrogen	tons	8,461	459,782
Nitrate calcium	tons	568	255,440
Phosphates, crude, including apatite and phosphate rock	tons	14,522	328,091
Potassium chloride, crude	tons	18,326	470,870
Nitrate, crude	tons	51	5,308
Sulfate, crude	tons	5,704	223,051
Urea	tons	4,872	444,346

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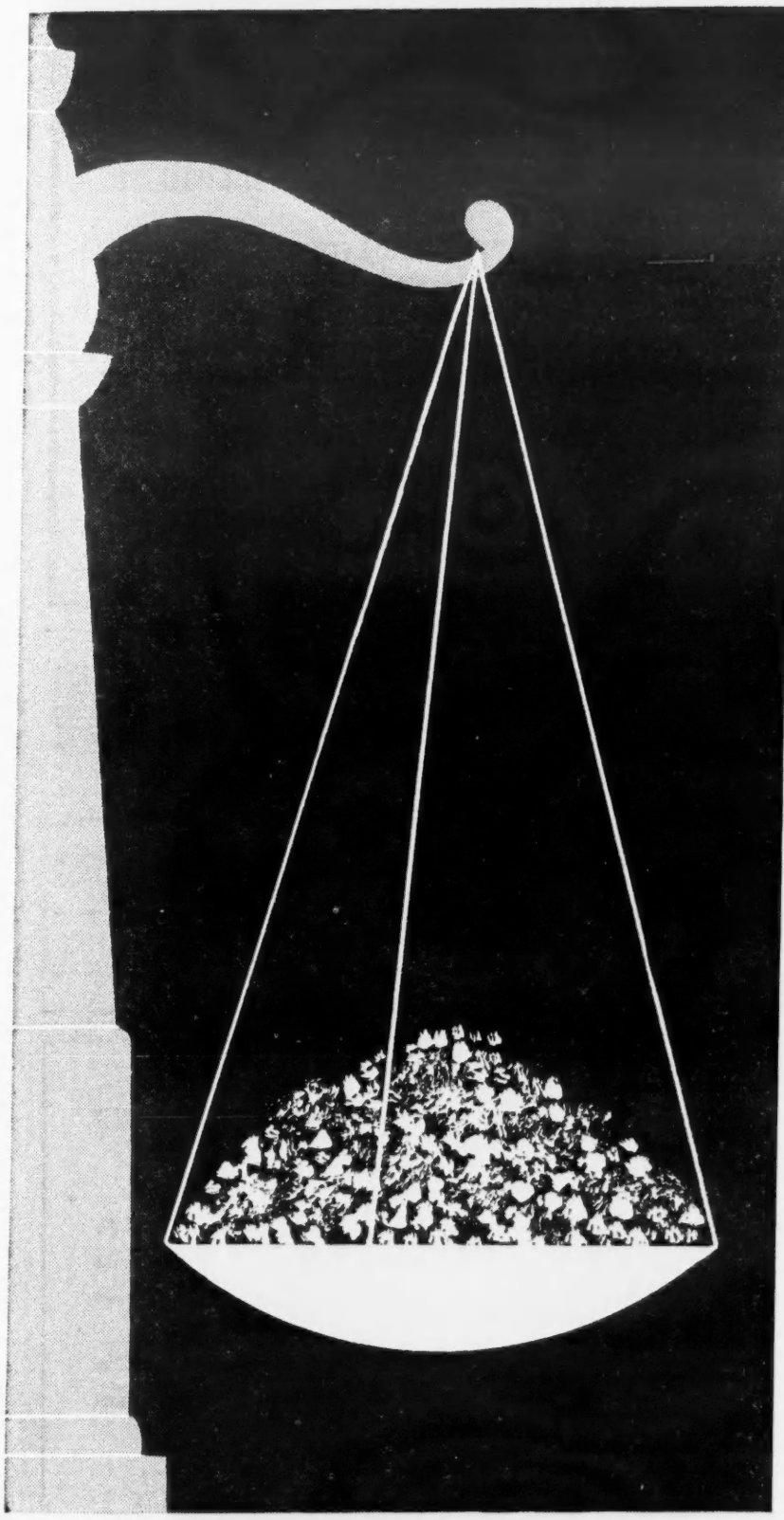

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Allied Chemical

Coal Chemicals

European benzol continued to appear on the domestic market at the rate of about 65 million gallons per year. Producers said that one reason for such volume must be a valid demand for more than the current record-high domestic production could supply, since the market continued to operate in even balance. In fact, most trade sources believed domestic prices for benzol would be higher than they were except for the influence exerted by the plethora of foreign material made available here at prices well below the domestic market.

The pattern of trade in toluol was irregular last week. Some producers reported they were sold up for a month in advance. Others said they were carrying some surplus. The picture in general, however, was substantially better than it had been for a year and a half.

Demand for o-cresol, which picked up abruptly a few months ago, was reported down again to the relatively low level prevailing a year ago. Industry sources said it appeared that the sudden improvement had been due to a new application (unknown) expected to consume large quantities of ortho. They guessed that some obstacle to this application had turned up in performance. Big things were in prospect for the long term, however. It was pointed out that increased supply stemming from plans to process considerable petroleum crudes could be counted on to stimulate research and market development.

M-p-cresol continued to move listlessly, as tricresyl phosphate production remained in a slump.

Cresylic acids within fairly tight specifications were in good balance.

Phthalic anhydride surpluses were wiped out by the rush of orders before higher prices went into effect a week ago. Now consumers were stocked up for weeks to come, so that the market had just about disappeared for the time being.

Dealers noted sharply increased demand for DBPC as a feed supplement.

A record was hung up for steel production in any September, the American Iron and Steel Institute reported, with 10,445,000 tons produced last month. Total production of 82,796,932 tons in the first nine calendar months, compared to 85,784,118 tons in the corresponding period in 1955, included 28,577,816 tons in the first quarter, 30,735,158 tons in the second quarter and 20,189,760 tons in the strike-crippled third quarter.

The institute estimated that production in the week ended October 21 would amount to 101.7 percent of theoretical capacity, equivalent to 2,504,000 tons of steel. The figure was compared to output of 2,483,000 tons in the week previous (not quite the record high that had been predicted), 2,477,000 tons in the comparable week in September and 2,386,000 tons in the corresponding week a year ago.

PriceTrends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100 = 1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
115.56	115.53	114.89	114.79

For Current Prices see Page 9

Basic Products

Benzol—Good balance was sustained last week at prices of long standing. The tone was satisfactory despite continued heavy import of cheap material from Europe.

Producers attributed the volume of imported material in part to efforts of consumer firms to shave costs and in part to a real need for more benzol than the record-breaking output from domestic sources currently reported. Another factor was the consumer policy of maintaining active trade in diverse channels to supply in order to gain assurance of access via those that remain open when other channels have been blocked off.

Domestic prices were on firm ground, and the opinion was expressed in some quarters that they would be higher than they were but for the depressing influence of low-cost imported material.

Imports in August were led by a shipment from Russia to New York. The Bureau of Census reported it amounted to 2,986,641 gallons, valued at $994,397, but private sources said the cargo actually included about a million gallons more than that. The Census Bureau was re-checking the figures.

Other benzol imports reported in the same month were 1,142,771 gallons, valued at $271,647, to Galveston, and 787,230 gallons, valued at $188,935, to New Orleans, both shipments from the Poland and Danzig region; 943,858 gallons, valued at $284,066, from the Netherlands to Galveston; 207,348 gallons, valued at $62,057, from West Germany to Galveston, and 48,277 gallons, valued at $17,379, from Canada to Buffalo.

Trade sources surmised that much of the imported material ostensibly shipped from Western Europe was merely transshipped from these points and actually originated behind the Iron Curtain. Germany was a good customer for surplus Russian benzol until recently but was probably producing more than enough to meet her own needs now, these sources believed.

For the calendar year to date, imports now totaled substantially more than 50 million gallons and, at the current rate, the figure would rise to 65 or 70 million gallons for entire 1956. The total for 1955 was only about 32 million gallons.

About a million gallons from Poland was docked at Houston the week before last.

Cresols—Trade in ortho had settled down last week, it was reported, to a volume not appreciably better than that of a year ago, which was rather low. This market had been unsatisfactory for years. Then, several months ago, it picked up abruptly. There were prospects of new markets in good volume and reports of orders being negotiated by one customer for upwards of a million pounds per year from one source alone.

Trade sources said it appeared that a consumer had found a use (unknown) for big supplies of ortho, giving rise temporarily to some of the boom of recent

Cokeoven Output: August

Following are cokeoven production statistics comparing August 1956 and the same month in 1955 as reported by the Bureau of Mines. Only cokeoven output is represented. (Creosote content of creosote-coaltar solutions was not calculated prior to January 1956.)

	August 1956	August 1955	First Eight Months 1956	First Eight Months 1955
Benzol (excluding motor grade) ....gals.	12,624,974	13,051,300	112,079,780	111,460,100
Creosote oil:—				
Creosote-coal tar solution.....gals.	516,633	615,500	2,572,377	3,460,500
Content in solution.....gals.	423,874	.....	2,165,628	.....
100 percent straight distillate .....gals.	2,006,929	2,480,900	14,010,872	17,576,300
Total 100 percent creosote .....gals.	2,430,803	.....	16,176,500	.....
Crude coaltar .....gals.	63,710,900	71,304,600	533,997,394	557,187,700
Naphthalene crude:—				
Solidifying under 74° C.....lbs.	2,478,502	3,145,700	23,273,801	23,876,900
At 74° C and under 76° C.....lbs.	1,575,851	1,893,200	10,213,115	12,199,800
At 76° C and under 79° C.....lbs.	9,211,676	10,586,800	78,213,650	83,560,500
Total .....lbs.	13,266,029	15,625,700	111,700,566	119,637,200
Solvent naphtha, refined .....gals.	28,978	25,800	119,146	175,300
Toluol, 1° and 2° grades only .....gals.	2,601,060	3,162,800	23,734,449	25,234,100
Xylol .....gals.	686,380	929,500	6,723,660	7,632,600

Coal Chemicals

months in this trade. Then, according to this view, there must have been some obstacle to application, and the volume of orders had tapered off to a routine level.

Chief uses for the present—all of them old, established ones and none showing remarkable growth in recent years—were reported to be manufacture of phenolic type resins used to coat linings of tin cans in order to prevent corrosion; formulation of a number of pesticides and insecticides, including dinitro-o-cresol, o-cresotinic acid and methyl phenoxy chloroacetic acid; the compounding of mephenesin, a muscle relactant made from refined ortho, and the making of coumarin, a synthetic vanilla.

Producers noted a decline in recent years in sales for manufacture of resins for can coating, possibly attributable to incursions into this market on the part of the epoxy resins, and for manufacture of coumarin, which has been down markedly ever since the makers voluntarily took this synthetic off the approved list for human consumption, about four years ago. Coumarin was moving now in small volume as an animal feed supplement and in other markets providing only limited demand.

One producer was planning to process petroleum crudes in heavy volume, which would lead inevitably to a substantial boost in output of ortho and intensified efforts to develop new markets for it. Observers believed that these markets would be developed eventually and that the potential for ortho was highly promising.

To date, however the relatively narrow market of recent years was all there was, producers said, and producers obtaining very high purity ortho were still blending out the large part of it that could not be marketed in the pure form.

Meta-para was still easy, reflecting sharply curtailed production quotas for tricresyl phosphate.

New production capacity for para was being developed vigorously in an effort to balance supply with heavy additional demand for use in manufacture of 2,6-di-tert-butyl-p-cresol. Rapid growth in this market manifested itself in an acute shortage of para in recent months.

Toluol—The pattern of this market was not uniform last week. Some producers reported they were sold up through next month. Others were carrying a small surplus.

In general, though, this industry was in better position than it had enjoyed for at least a year and a half. Last summer's steel strike wiped out inventories that had held the market off balance. The current situation was still governed to a large extent by that housecleaning.

Intermediates

2, 6—Di-tert-Butyl-p-cresol—Producers noted that feed grade DBPC was finding increasing demand for use as a feed supplement.

The market for technical material remained active and growing, with prices exceptionally strong following their return to the old level when an announced October 1 increase of 9c. per pound failed to stand up in trade.

Phthalic Anhydride—The moratorium until last Monday on effectiveness of new, higher price schedules was occasion for consumers to clear away the gathering surplus of producers' stocks.

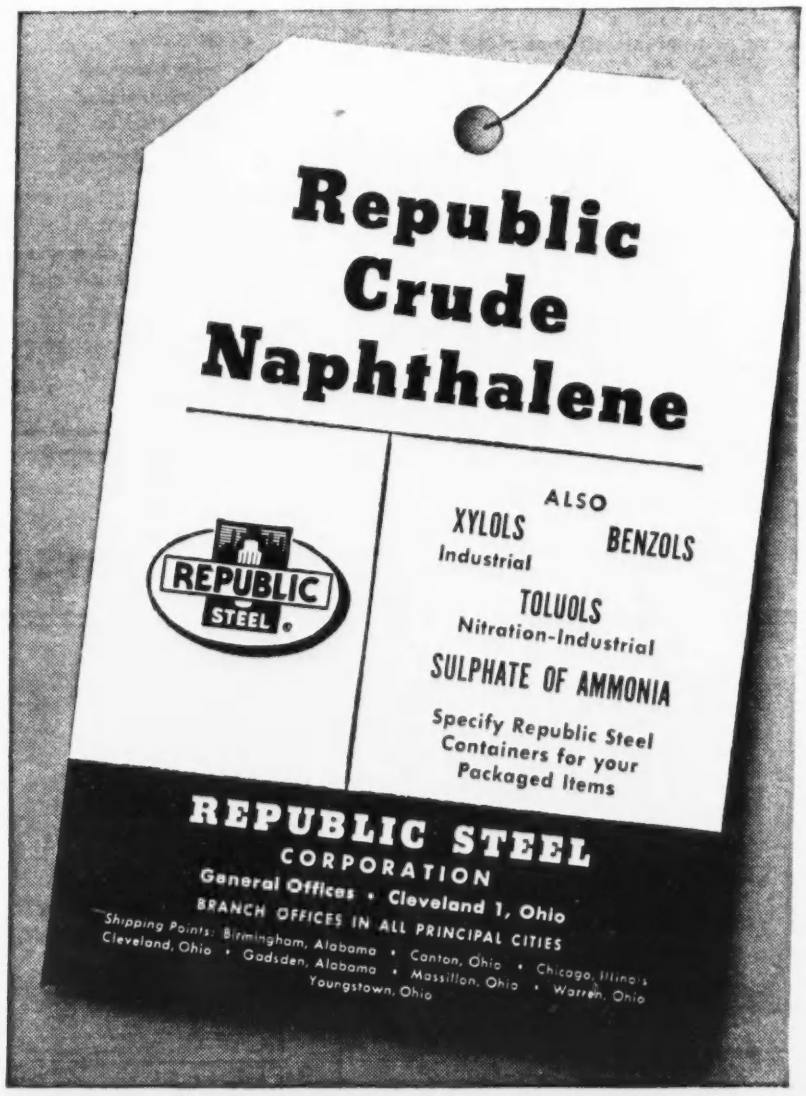
Consumers were now sitting on heavy inventories, with the result that there was virtually no market last week. Producers expected the quiet interval to extent through the next several weeks.

Meantime, the fundamental position of this market was masked by the rush of orders ahead of the new prices going into effect and the consequent pause following.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending October 21 was as follows:—

Ammonia liquor	lbs.	974,241
Ammonium sulfate	lbs.	41,483,812
Benzol	gals.	3,708,401
Coaltar	gals.	18,227,736
Creosote oil	gals.	707,110
Naphthalene, crude	lbs.	3,944,105
Pyridine, refined	lbs.	14,142
Toluol	gals.	817,105
Xylol	gals.	235,703



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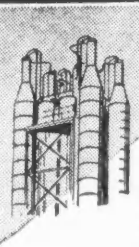

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Hormone Order Delivered By Syntex to E. R. Squibb

Syntex Animal Products, a division of Foundation Laboratories, Inc., has delivered the initial shipment of a large order of "Synovex," a natural hormone product that boosts weight gains in steers, to E. R. Squibb & Sons, a division of Olin Mathieson Chemical Corporation. Squibb is sole distributor of the new product in the United States, Alaska and Hawaii. "Synovex" was cooperatively developed over a four-year period by Syntex and Squibb.

Foundation Laboratories said that the potential market for "Synovex" includes an estimated 15 million steers a year. Foundation Laboratories is one of the Syntex group of companies which Ogden Corporation acquired in May. The Syntex group includes major research facilities and plant in Mexico and Puerto Rico and is a long-established producer of steroid hormones for the United States pharmaceutical industry.

Chemists' Club's Meeting To Consider Tranquilizers

Tranquilizers will be the subject of discussion at the fall dinner meeting of the Chemists' Club, scheduled for October 31 at the club headquarters 52 East 41st, New York.

Speakers will include Dr. Frank M. Berger medical director of Wallace Laboratories, New Brunswick, N. J., a discoverer of the tranquilizer "Miltown" and Dr. A. H. Holland, jr., director of the Bureau of Medicine of the Food and Drug Administration, Washington, D. C.

Antibiotic Rules Changes Are Announced by FDA

Food and Drug Administration last week amended its antibiotic rules to provide for the testing and certification of a preparation combining procaine penicillin, neomycin and polymyxin in oil and as an ointment. The amendment became effective with its publication in the *Federal Register*, **October** 16.

The FDA also announced a change in its regulations to provide for the testing and certification of penicillin and novoviocin capsules. The drug is to be labeled with a certification period of eighteen months.

Grace Gets

—Continued from page 4

ess may prove of interest in as widely developed fields as appliances, automotive, building construction, chemical construction, food packaging, hospital wares, housewares, and industrial textiles, just to name a few."

Sequoia, a manufacturer of plastic insulated wire and cable, was attempting to improve its Insulating materials. Samples of a modified polyethylene were submitted to Sequoia's neighbor, Stanford Research Instiutute, for irradiation by the institute's cobalt 60 source of gamma rays.

The tests on the irradiated samples showed physical properties far superior not only to conventional polyethylene, but to any known results for irradiated polyethylene. Subsequent research by Stanford Research Institute led to the discovery of the "Hyrad" process.

Today Sequoia has the process in full production. Wire insulated with the new plastic compound is run beneath a high energy radiation beam of electrons which travel at nearly the speed of light. After this treament, the wire can be dipped into molten solder at 600 degrees Fahrenheit. Unirradiated polyethlene melts and degrades within thirty seconds under such conditions, whereas "Hyrad" processed polyethylene remains unaffected.

Anhydrous Ammonia

—Continued from page 7

speak the same day at a field demonstration to be held at the experiment station at Griffin, Ga.

J. Richard Adams, senior chemist, fertilizer and agricultural lime section, ARS, Beltsville, Md., will speak on "The Nitrogen Situation" on November 9.

Other speakers will be Dr. Kenneth McFarland, educational consultant, General Motors Corporation; Dr. Byron T. Shaw, administrator of the Agricultural Research Service, on "USDA Research," and Max Fetty, of Delta Tank Manufacturing Company, Baton Rouge, La., on "Selling Through Public Relations."

A trade show, featuring the latest equipment for applying ammonia directly to the soil, will be open before and after all sessions of the convention.

Jack F. Criswell, executive vice-president of the AAI, said institute members from throughout the nation are expected to attend. He said Georgia farmers are invited to attend the field demonstration at the experiment station at Griffin, where J. G. Futral, head of the Georgia Department of Agricultural Engineering, will be in charge.

ADM Elects Director

John D. Farrington has been elected to the board of directors of Archer-Daniels-Midland Company, Minneapolis, Minn. Mr. Farrington is chairman of the board of the Chicago, Rock Island & Pacific Railroad.

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Increased offers of new crop potato starch in Maine improved trading and a fair volume of business was booked for prompt shipment. Prices were adjusted downward from recent nominal quotations, but were one half higher than at the start of the new production last year. Offers from Idaho also were freer and new crop was available at a fractional decline. Lower prices also were announced for flake egg albumin and prices were reduced sharply due to slow demand and heavy stocks. Technical egg albumin and egg yolk remained unchanged and steady.

Consuming interest for other textile and leather chemicals continued quite active, last week, with bulk of sales restricted to prompt requirements. Prices were well held for most materials. In the chemical group, users increased the call for materials against current contracts, while new business was spotty, chiefly for prompt delivery.

There was no change in the tanning materials market. Tanners continued to confine interest to nearby shipment. Prices were without change and reflected the steadiness of primary markets.

Producers of rayon and acetate yarn, staple and tow shipped 86,600,000 pounds in September, a decline of 3 percent from 89,100,000 pounds in August and 15 percent below the 101,500,000 pounds shipped in September, 1955, according to Textile Economics Bureau. September shipments comprised 85,400,000 pounds to the domestic market and the balance of 1,200,000 for export.

Imports of rayon staple in August totaled 5,886,000 pounds against 6,632,000 pounds in July. For the first eight months of this year, rayon staple imports aggregated 62,912,000 pounds, 51 percent below the 128,336,000 pounds imported during the comparable 1955 period. For the non-cellulosic manmade fibers, August imports were 21,000 pounds, bringing the eight month 1956 total to 225,000 pounds, compared with 185,000 pounds in the same period a year ago.

PriceTrends

Advanced
None

Reduced
Egg Albumin flake, 8c. per lb.
powder, 8c. per lb.
Potato starch, Idaho, ¼c. per lb.
Maine, ½c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
108.27	108.29	107.71	104.27

For Current Prices see Page 9

Chemicals

Bichromates — Steady consuming demand continued for delivery against current contracts. Market was unchanged and firm for all grades.

Sodium Acetate—Consumers took fair sized lots for prompt delivery. Prices were maintained at former levels.

Sodium Hydrosulfite—Firm tone prevailed in this market. Trading was fairly active for prompt needs at prevailing quotations.

Sodium Peroxide—This market was firm at the recent advance. Carlots were higher at 20c. per pound, drums, delivered east of the Mississippi effective October 1 and 20½c. to 21c. for smaller quantities.

Sizing Materials

Albumin Blood—Good consuming demand for prompt delivery continued last week. Stocks were adequate and maintained at former levels. Prices ranged from 65c. to $1 per pound, depending upon quantity.

Corn Starch — Consumers continued to take sizable quantities for prompt delivery. Prices were held at current levels Pearl was quoted at $7.27 per 100 pounds, paper bags, carlots, New York, and powder, $7.39, same basis. Less carlots were 15c. per 100 pound higher. Visible corn supply increased 802,000 bushels to 43,318,000 bushels for the week ended October 12, compared with 19,377,000 bushels at the same time last year, it was reported by the Chicago Board of Trade.

Corn crop forecast was increased to 3,369,102,000 bushels October 1 by the Department of Agriculture, compared with 3,335,730,000, September 1; final 1955 production of 3,421,536,000 and ten-year average of 3,084,389,000 bushels.

Egg Albumin—Slow demand, coupled with heavy stocks weakened this market and prices dropped sharply. Flake was lower at $1.75 to $1.77 per pound and powder, $1.79 to $1.81, spot according to quantity and seller. The technical grade continued firm and unchanged at $1.08 to $1.10 per pound, as to quantity. This grade was reported in limited supply.

Egg production in September was reported at 4,435 million, against, 4,559 million in August and 4,245 million, September last year. Production January through September totaled 45,936 million compared with 45,201 for the same period last year and 10-year average of 44,850 million.

Egg Yolk—While egg albumin declined sharply, yolk remained quotably unchanged and steady. Trading was fairly active and confined to actual needs. Prices ranged from $1.05 to $1.07 per pound, spot as to quantity.

Potato Starch—New crop starch in Maine was available at 6¼c. per pound, carlots, f.o.b. mills, with moderate volume of business reported at this level. This price was about ½c. per pound below recent nominal quotations for old crop starch. Offers from Idaho also were freer at lower levels. Carlots were quoted at 6c. per pound, f.o.b. and ½c. less for delivery to eastern points. Stocks on spot also were easier and recently declined to 8¼c. to 9¼c. per pound, exwarehouse. Lower cost of domestic reduced buying interest in foreign material. Dutch starch was nominal at 7½c. per pound, carlots, exdock, duty paid.

The government report forecast the potato crop at 242,167-100 pounds, as of October 1, compared with 233,676, September 1 final 1955 production of 227,046 and 10-year average of 226.360-100 pounds.

Tapioca Flour—Buying interest was confined to Siamese grades. Deliveries against recent heavy orders for prompt arrival were readily absorbed, while new business was reported moderate. Siamese AAA grade was unchanged at 6.9c. per pound, carlots, exdock, prompt shipment and mediums ranged from 5½ to 6c. same basis, as to quality. Brazilian flour was inactive and merely nominal around 10½c., carlots,exdock and 11c., exwarehouse.

Tanning Materials

Canadian footwear production totaled 22,135,071 pairs in the first 6 months of 1956, compared with 19,722,336 pairs for the corresponding period of 1955, an increase of 2,412,735 pairs.

Output of footwear with leather soles amounted to 1,277,283 pairs in June, 1956, and for the first 6 months of 1956, 8,256,160 pairs.

Chestnut Extract—Trading was restricted to nearby delivery. Prices were without change and steady. Solid extract guaranteed 60 percent was quoted at 9⅛c. per pound, carlots, exdock, plus duty, prompt shipment and powdered, 70 percent, 10⅝c., same basis.

Cutch—This market remained steady and quotably unchanged. Offers for prompt shipment were light and held at 8½c. per pound, carlots, exdock, plus duty.

Myrobalans—Conditions in this market remained unchanged and steady. Buying interest continued spotty. Genuine J1 was quoted at $63 to $64 per ton, exdock, prompt shipment; crushed, $79 to $80 per ton and Bombay, $61 to $62, same basis.

Valonia—Firm tone featured the primary market. Shipments were maintained at the recent advance and reflected light offers due to smaller production. Cups were quoted at $63 per ton, carlots, exdock; beards, $84 per ton, same basis. Extract was unchanged at 9½c. per pound, carlots, exdock, plus duty.

Wattle—Offers for shipment were unchanged and well held. Buying interest was spotty, and confined to nearby shipment. Fair average bark quoted at $95 to $96 per ton, exdock, prompt shipment and merchantable at $91 to $92. East African extract was unchanged at 9⅞c. and South African 10c. per pound, carlots, exdock, plus duty.

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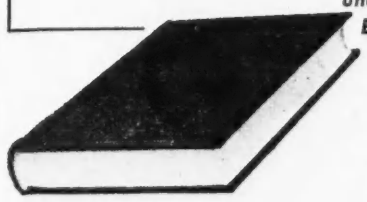

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Drugs, Fine Chemicals

Silver cyanide was advanced five-eighths cents per ounce last week and silver nitrate was increased one-half cent per ounce. These changes followed a rise in the price on silver bullion. Otherwise prices on drugs and fine chemicals were generally firm and expected to continue in the same vein throughout the remaining months of 1956.

Theobromine sodio-salicylate and theobromine-sodium acetate prices were unchanged last week despite the seventy-five cents per pound advance on the alkaloid the previous week. The increase on the latter item was said to be, "a reflection of increased production costs."

Carotene was sharing in the moderate to strong demands being made for all types of vitamins. Synthetic carotene, in particular, was moving in good business volume. Introduced to the market a little over a year ago at an opportune time, b-carotene is most sought after by food processors as a coloring and fortifying agent.

In the domestic botanicals drug market, senega root was somewhat eased after having been in tight supply during recent weeks. Imported botanicals were generally on firm ground.

Reserpine, the most widely heralded of the tranquilizer drugs, was moving in moderate business volume. A concerted effort at research into the potential therapeutic efficacy and potential toxicity of these tranquilizers is now being made it was said.

Antibiotics were reported to be continuing in a strong position. A current report describes the use of sulfamethazine and aureomycin in combination in chick feed supplements, the object being to promote growth and at the same time control coccidial organisms.

Acetylsalicylic acid — Producers continued to report substantial seasonal increases in demand for aspirin as well as acetophenetidin and other prominent analgesic components. Prices were unchanged from those currently listed in OPD's price section. Supplies on hand were quite adequate.

Calcium gluconate—The market was rather quiet for this item. Prices for AA material ranged from 74c. to 76c. per pound in drum quantities. USP material, same quantity, was reported ranging from 67c. to 69c. per pound.

Carotene—Synthetic carotene continued in good demand as a coloring agent due to the fact that other materials being used have been undergoing toxicity tests by the FDA. Prices current on technical grades, microcrystalline in oil and b-carotene as well as carotene in carrot oil were unchanged. Producers reported abundant supplies on hand.

Lanolin—Current prices on cosmetic grades, drum quantities, ranged from 27c. to 29c. per pound while USP hydrous same quantity, was reported ranging from 25c. to 27c. Hydrous material went for 24c. to 26c. Demand was good for all grades and sales were steady at a moderate pace. Producers pointed to increased costs in shipping, packaging and labor as reasons for the recent across the board increase of 2c. per pound. It was felt that there might be further increases in the near future.

Menthyl salicylate—Demand was routine for this item and supplies were reported quite adequate. Prices were ranging from $4 to $4.25 depending on quantity and seller.

Oxyquinoline sulfate — Demand was steady at a low volume. Supplies were quite adequate and prices were unchanged. Lots of 100 pounds or more were priced at $4.75 per pound. Smaller lots ranged from $4.92 to $5.17 depending on quantity and seller.

Riboflavin — Riboflavin continued in good demand. Supplies were reported quite adequate. Prices were unchanged from those currently being quoted in the price section. Readily soluble was quoted at $130 per kilo while USP B_2 was reported at $65 per kilo. 5' Phosphate-sodium ribo in 100 kilo lots or more sold for $125 per kilo.

Resorcinol—Demand for resorcinol as used in medicinals was steady at a low volume. Current prices were firm at $2.75 for USP crystalline and $2.95 for processed material. The monoacetate was reported ranging in price from $3 per pound to $3.25. Technical resorcinal used in rubber compounding was in good demand. Supplies of all grades were plentiful.

PriceTrends

Advanced

Silver cyanide, 5⅛c. per oz.
Silver nitrate, ½c. per oz.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
65.64	65.69	66.49	66.42

For Current Prices see Page 9

Saccharin—Demand was routine for saccharin and sales were steady at a moderate volume. USP crystalline, soluble, 1,000 pound lots were quoted at $1.60 per pound. Smaller lots ranged in price from $1.70 to $1.80. Powered material, soluble and insoluble was reported at $1.65 per pound while smaller lots ranged from $1.75 to $1.95. Supplies were adequate.

Sodium gentisate—Demand was steady at a low volume and supplies were quite adequate. It was reported that sodium gentisate is currently being used with salicylamide as an anti-arthritic particularly effective for persons who cannot tolerate the usual salicylates. Sodium gentisate, 82 percent, was available in 100 pound fiber drums at $5.50 per pound. Lots of 25 to 99 pounds were priced at $5.60 while lots less than 25 pounds were reported at $5.70.

Sodium perborate—Carlots were reported at 19c. per pound and less carlots at 21c. Demand was moderate to good and supplies were adequate at the present time.

Silver Salts — Silver nitrate was advanced ½c. per ounce last week and silver cyanine showed a ⅝c. increase per ounce. These changes have been anticipated by producers in recent weeks due to the steady increase in the price of silver bullion.

Tannic acid—This item continued to maintain the high price levels attained last year. NF, fluffy material, in 1,000-pound lots was reported to be $2.05 per pound while smaller lots ranged from $2.06 to $2.10. Processed material, 1,000-pound lots sold for $1.95 per pound as smaller lots ranged from $1.96 to $2.01. Technical grades, in drums, were quoted at $1.05.

Theobromine sodio-salicylate — Abundant supplies were reported available and demand was steady at a moderate pace. NF material, 1,000 pound drums, was quoted at $3.30 per pound while theobromine and sodium acetate, USP, was priced at $4.

Thiamine — Vitamin B_1 continued to hold a strong position and supplies of both the hydrochloride and the mononitrate were moving in very good business volume. Producers felt that the growing demand for vitamins in general would extend into November when normal seasonal levels would be reached. Thiamine hydrochloride, USP regular, in drum quantities, was priced at $60 per kilo. Ampule grade, same quantity, was reported at $62 while the mononitrate, USP, drums, was also quoted at $62 per kilo.

Vitamin B_{12}—Demand for B_{12} was good and supplies moved in moderate business volume. It was felt that increased use of cyanocobalamin products in multi-vitamin preparations have helped sales. Prices were unchanged.

Botanicals

The list of domestic botanical drugs in short supply last week included cascara bark, golden seal root and lady's slipper root. Prices on the latter item were nominal. The situation on senega root, which had been tight was somewhat eased and current demands were being met promptly. It was reiterated that stocks of some drugs would be exhausted by early 1957 and would be unavailable at any price.

Imported botanical drugs were reported on firm ground. No price was

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Drugs, Fine Chemicals

available for Socotrine Aloe since the material which has been coming in is of such doubtful quality.

Demands for botanicals in general has been somewhat increased in the past few weeks although sales could best be described as moderate.

USP domestic peppermint leaves were reported selling at prices somewhat under the imported brand. Aloe, except for the Socotrine, cubeb berries and rhubarb root were all reported in good supply and demands were moderate.

Aloe—Cape aloe was quoted at 50c. per pound while the processed material was reported at 65c. Curacao aloe was priced at 60c. There was still no price for Socotrine since material available was of doubtful quality. Supplies were adequate and demand was moderate.

Angelica root—Demand was good for this domestic botanical and supplies were adequate. Prices currently ranged from 80c. to 90c. per pound depending on quantity.

Cubeb berries—Imported cubeb berries, NF, were reported selling for 70c. per pound while NF powder was at 85c. Supplies were quite adequate and moderate demands were being met promptly.

Ergot—Domestic ergot, NF, was in moderate demand and supplies were holding up well. Material in tin-lined drums was available at $2 per pound.

Peppermint leaves—Domestic peppermint leaves were in good demand and was reported at 70c. per pound. Supplies were quite adequate. Imported peppermint leaves were quoted at 85c. per pound.

Rhubarb root—Indian rhubarb root was priced at 30c. per pound and processed material was reported 8c. higher. Supplies were plentiful and demands were moderate at the present time.

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AMYRIS OIL—3 dms, Ungerer & Co, Port Au Prince
ANILINE DYES—41 dms, Sandoz Chemical Works, Havre
26 cks, Van Oppen & Co, Havre
20 cans, Kaufman & Vinson, Hamburg
12 dms, Geigy Chemical Corp, Havre
104 dms, Hensel Bruckmann & Lorbacher, Hamburg
6 dms, C A Haynes, Hamburg
34 dms, L & R Organic Products Co, Rotterdam
12 dms, Ciba Co, Rotterdam
ANISE SEED—82 bgs, V A Cordovi, Vera Cruz
ANNATTO SEED—100 bgs, Foreign Domestic Distributors, Callao
ANTIMONY—676 cs, American Metal Co, Callao
REGULUS—80 cs, C Gitlan, Antwerp
ARABIC GUM—1,014 bgs, National City Bank, Port Sudan
504 bgs, Bank of N Y, Port Sudan
507 bgs, Chase Manhattan Bank, Port Sudan
151 bgs, American Trust Co, Port Sudan
650 bgs, Morningstar Nicol, Port Sudan
750 bgs, Hanover Bank, Port Sudan
200 bgs, Chemical Bank, Port Sudan
150 bgs, Port Sudan
ARGOL—200 bgs, Tartaric Raw Materials, Marseille
256 bgs, Tartaric Raw Materials, Buenos Aires
ARTICARBONE—20 bgs, Pennsalt International, Havre
ASBESTOS FIBER—500 bgs, North American Asbestos Corp, Durban
ASCORBIC ACID—10 dms, Mitsubishi International Corp, Yokohama
BARBASCO ROOT—47 bls, Astoria Panamericana, Callao
BARBITAL—3 kgs, A J Fritz Co, Hamburg
BEESWAX—200 bls, Biddle Sawyer Corp, Porto Alegre
141 blks, Biddle Sawyer Corp, Lisbon
100 bgs, National City Bank, Rijeka
106 pkgs, Guaranty Trust Co, Port Sudan
44 pkgs, Guaranty Trust Co, Alexandria
15 bgs, H H Pike & Co, Havana
26 bgs, H H Pike & Co, Tampico
15 bgs, Vera Cruz
BILE, OX—5 dms, Wilson & Co, Santos
BISMUTH—69 cs, Cerro de Pasco Corp, Callao
BOIS DE ROSE OIL—5 dms, Centflor Manufacturing Co, Belem Para
BONE BLACK—400 bgs, Transatlantic Animal By Products Corp, Alexandria
BORNYL ACETATE—3 cks, Roberts Reilly & Sons, Hamburg
BUTYROLACTONE—91 dms, Hensel Bruckmann & Lorbacher, Rotterdam
CADMIUM—220 cs, Intercontinental Metal Corp, Genoa
95 cs, Chase Manhattan Bank, Yokohama
CANDELILLA WAX—489 bgs, Tampico
CARAWAY OIL—2 dms, Magnus Mabee & Reynard, Rotterdam
SEED—100 bgs, Biddle Purchasing Co, Rotterdam
100 bgs, Joel Bieler, Rotterdam
200 bgs, Rotterdam
CARDAMOM—8 cs, P H Petry, London
12 cs, R F Downing, London
SEED—37 cs, Wm E Martin, Puerto Barrios
CARNAUBA WAX—68 bgs, Mercantile Metal & Ore Corp, Natal
313 bgs, Strahl & Pitsch, Tutoia
167 bgs, M Argueso & Co, Fortaleza
92 bgs, Dura Commodities Corp, Rio de Janeiro
CAROB—400 bgs, W Mahneke, Casablanca
40 bgs, Larnaca
BEAN FLOUR—50 bgs, Guaranty Trust Co, Catania
50 bgs, Catania
CASEIN—1,500 bgs, Borden Co, Buenos Aires
1,500 bgs, Carlos Saysue, Hamburg
1,000 bgs, Overseas Merchants Corp, Hamburg
100 bgs, F H Paul & Stein Bros, Buenos Aires
1,000 bgs, Buenos Aires
CASSIA—175 pkgs, R J Spitz, Rotterdam
493 pkgs, Rotterdam
CASTOR BEANS—5,080 bgs, Baker Castor Oil Co, Salvador
OIL—100 tons, Baker Castor Oil Co, Buenos Aires
949 tons, Baker Castor Oil Co, Bombay
100 tons, Wallace & Tiernan, Bombay
197 tons, Archer Daniels Midland Co, Bombay
200 tons, Woodward & Dickerson, Salvador
CELERY SEED—170 bgs, Louis Furth, Bombay
86 bgs, Wm E Martin & Co, Bombay
86 bgs, George Lueders & Co, Bombay
34 bgs, Shippers Produce Corp, Marseille
174 bgs, C M Van Sillevoldt, Bombay
CHARCOAL—90 bgs, Dow Chemical Co, London
CHESTNUT EXTRACT—600 bgs, Barkey Importing Co, Genoa
CINNAMONBARK OIL—5 cs, Volkart Bros, Colombo
CITRONELLA OIL—145 dms, George Uhe Co, Keelung
25 dms, United Global Corp, Keelung
COALTAR DYES—3 dms, Hensel Bruckmann & Lorbacher, Rotterdam
18 dms, Geigy Chemical Corp, Rotterdam
1 dm, Ciba Co, Rotterdam
20 cans, Kaufmann & Vinson, Rotterdam
2 dms, Natural Nydegger, Havre
42 dms, L & R Organic Products Co, Genoa
COD LIVER—1,325 dms, Silmo Chemical Corp, St Johns
OIL—100 dms, Reilly Whitemore Walton Co, St Johns
25 dms, Scandinavian Oil Co, St Johns
250 dms, Nopco Chemical Co, St Johns
COPAL GUM—68 bkts, Gillespie Rogers Pyatt, Macassar
123 bkts, O G Innes Corp, Macassar
84 bgs, S Winterbourne & Co, Matadi
CORIANDER SEED—800 bgs, M J Golombeck, Casablanca
300 bgs, Wm E Martin, Casablanca
CREAM OF TARTAR—900 bgs, Nylos Trading Co, Genoa
CUBE ROOT—37 bgs, Canadian National Bank, Callao
425 bgs, Foreign Domestic Distributors, Callao
140 bls, National City Bank, Callao
CUMIN SEED—100 bgs, Karr Ellis & Co, Casablanca
100 bgs, W Mahneke, Casablanca
1,100 bgs, C M Van Sillevoldt, Khorramshahr
180 bgs, Rotterdam
CUTTLEFISH BONE—14 cs, E E Bier Co, Karachi
100 cs, Wagner Bros, Kobe
50 cs, Colombo
DANDELION ROOT—30 cs, Judson Sheldon Division, London
DEXTRIN—1,137 bgs, Guaranty Trust Co, Rotterdam
200 bgs, Beacon Freight Co, Rotterdam
EUCALYPTUS OIL—2 dms, Bemo Shipping Co, Rio de Janeiro
FENUGREEK SEED—278 bgs, S B Penick & Co, Casablanca
FUEL OIL—75,856 bbls, Hess Inc, San Lorenzo
136,438 bbls, Metropolitan Petroleum Corp, Curacao
70,900 bbls, Shell Caribbean Petroleum Co, Punta Cardon
10,000 bbls, Asiatic Petroleum Corp, Curacao
118,657 bbls, Esso Standard Oil Co, Aruba
102,445 bbls, Paragon Oil Co, Tampico
GALL—6 dms, Rotterdam
OX—3 bbls, Tupman Thurlow, Rio de Janeiro
8 cks, Van Gelder Fanto Corp, Buenos Aires
GAMMA ACID—62 dms, L & R Organic Products Co, Rotterdam
GELATIN—50 bgs, T M Duche & Sons, Rotterdam
10 dms, Hensel Bruckmann & Lorbacher, Rotterdam
221 bgs, Manhattan Paste & Glue Co, Hamburg
GERMANIUM OXIDE—48 cs, American Metal Co, Antwerp
GHATTI GUM—57 bgs, Morningstar Nicol, Bombay
22 bgs, Colony Import & Export Corp, Bombay
GLUE—300 bgs, Franco Belgian Trading Co, Marseille
STOCK—2,103 bls, A M Goldstein, Barranquilla
433 bdls, John Gorvers & Co, Puerto Plata
GLYCINE—20 cks, Rotterdam
GUAR GUM—100 bgs, Heemsoth Kerner, Rotterdam
200 bgs, Morningstar Nicol, Rotterdam
4,524 bgs, Stein Hall & Co, Bombay
GYPSUM—20,676 tons, U S Gypsum Co, Hantsport
4,827 tons, National Gypsum Co, Dingwall
HEXAOXYCITRONELLAL—10 cs, Lo Curto & Funk, Havre
HOOF AND HORNMEAL—1,615 bgs, Transatlantic Animal By Products Corp, Buenos Aires
IPECAC ROOT—10 bgs, Wessel Duval & Co, Cartagena
10 bls, Barranquilla
IRON OXIDE—2 dms, Bremen
KAMALA POWDER—30 bgs, S B Penick & Co, Bombay
KARAYA GUM—37 bgs, Orbis Products Corp, Bombay
63 bgs, Tragacanth Importing Corp, Bombay
365 bgs, Colony Import & Export Corp, Bombay
420 bgs, Morningstar Nicol, Bombay
201 bgs, Meer Corp, Bombay
61 bgs, Thurston & Braidich, Bombay
120 bgs, Werner Dental Co, Bombay
102 bgs, Stein Hall & Co, Bombay
LABDANUM GUM—10 cks, L A Champon & Co, Barcelona
LACTIC ACID—1 cby, Rotterdam
LAVENDER FLOWERS—75 bgs, Alicante
LAVANDIN OIL—6 dms, A Verley & Co, Marseille
LEMON OIL—9 dms, National City Bank, Vera Cruz
LICORICE—32 bgs, S B Penick & Co, Piraeus
LITHARGE—434 dms, Eagle Picher Co, Tampico
LIVER CONCENTRATE—12 dms, Wilson & Co, Buenos Aires
POWDER—30 cs, Bernabo International Corp, Buenos Aires
30 dms, Tec Chemical Corp, Montevideo
LOCUST BEAN GUM — 200 bgs, Morningstar Nicol, Genoa
100 bgs, Colony Import & Export Corp, Genoa
100 bgs, Thurston & Braidich, Genoa
100 bgs, Meer Corp, Genoa
100 bgs, T M Duche & Sons, Genoa
300 bgs, Stein Hall & Co, Rotterdam
100 bgs, T M Duche & Sons, Rotterdam
200 bgs, Paul A Dunkel, Genoa
560 bgs, Stein Hall & Co, Genoa
1,745 bgs, J L Quesada, Valencia
100 bgs, Bank of N Y, Valencia
600 bgs, Valencia
LUTIEDINE—7 bbls, Kolon Trading Co, Gdynia
MACE—6 cs, J W Phyfe, Rotterdam
42 cs, Knickerbocker Mills, Singapore
MAGNESITE—675 bgs Goldwynne Chemical Corp, Colombo
MANGANESE ORE—360 bgs, National Carbon Co, London
MASTIC GUM—5 cs, National Bank of Greece, Piraeus
MENTHOL—500 cs, Rio de Janeiro
MERCURY—42 flks, L H Keller & Co, Tampico
500 flks, Hanover Bank, Leghorn
200 flks, Swiss Credit Bank, Leghorn
50 flks, Turkey Credit Bank, Izmir
MONTAN WAX—1,600 bgs, F L Kraemer & Co, Rio de Janeiro
MUSTARD SEED—215 bgs, Becker Mayer Seed Co, Copenhagen
1,300 bgs, Catania
MYROBALANS—614 bgs, Barkey Importing Co, Bombay
NICKEL CHLORIDE—180 bgs, Philipp Bros. Chemicals, Hamburg
NUTMEG—1,050 bgs, East India Trading Co, Grenada
250 bgs, Shippers Produce Corp, Grenada
72 bgs, Grenada
90 bls, Rotterdam
40 bgs, Rotterdam
OLIBANUM GUM—67 bgs, Max Van Pels, Bombay
OLIVE OIL—37 dms, Marine Midland Trust Co, Barcelona
ORRIS ROOT—100 bgs, Lo Curto & Funk, Leghorn
167 bgs, Leghorn
PALM OIL—402 tons, Balfour Guthrie, Boma
398 tons, Matadi
PALMKERNEL OIL—321 tons, Matadi
PALO SANTO OIL—48 cs, Hollander Trading Co, Buenos Aires
PAPRIKA—360 bgs, M J Golombeck, Valparaiso
500 bgs, Rijeka
100 bgs, Alicante
PATCHOULI OIL—12 dms, Olson Importing Co, Penang
6 dms, Perfumery Associates Inc, Penang
PEATMOSS—600 bls, D & M Lumber Products Co, Gothenburg
700 bls, Premier Peatmoss Corp, Copenhagen
500 bls, Lewis International Co, Bremen
1,000 bls, E J Lang, Bremen
1,000 bls, C Fafard, Bremen
1,000 bls, C Fafard, Hamburg
500 bls, New Amsterdam Import Co, Bremen
500 bls, Premier Peatmoss Corp, Hamburg
1,500 bls, Lewis International Corp, Hamburg
400 bls, C Gastmeyer, Rotterdam
1,000 bls, C Fafard, Gothenburg
500 bls, Ascot Peatmoss Corp, Bremen
2,634 bls, Premier Peatmoss Corp, Bremen
500 bls, Trans Sphere Trading Co, Bremen

PENARROYA ANTIMONY—230 cs, Antwerp
PEPPER, BLACK—510 bgs, Borneo Sumatra Trading Co, Singapore
140 bgs, Trinity Trading Co, Singapore
210 bgs, C M Loeb Rhoades & Co, Singapore
70 bgs, C Czarinkow, Singapore
130 bgs, Internatio Rotterdam, Singapore
80 bgs, Chase Manhattan Bank, Colombo
250 bgs, Louis Furth, Vera Cruz
280 bgs, Singapore
PETITGRAIN OIL—6 dms, A Verley & Co, Buenos Aires
11 dms, Hollander Trading Co, Buenos Aires
PETROLEUM, CRUDE—264,000 bbls, Esso Standard Oil Co, Puerto La Cruz
207,490 bbls, Calso, Sidon
PHENAZONE—10 cks, Havre
PHENYL ETHYL ALCOHOL—1 ck, Lo Curto & Funk, Havre
PIPERAZINE HEXAHYDRATE—30 dms, American Roland Corp, Genoa
40 cks, Havre
POPPY SEED—50 bgs, Levy & Levis Co, Rotterdam
200 bgs, Biddle Purchasing Co, Rotterdam
240 bgs, Louis Furth, Rotterdam
100 bgs, R J Spitz, Rotterdam
50 bgs, Transit Import & Export Co, Buenos Aires
100 bgs, Louis Furth, Buenos Aires
500 bgs, Rotterdam
PSYLLIUM SEED HUSKS—201 bgs, Biddle Sawyer Corp, Bombay
122 bgs, Meer Corp, Bombay
PYRETHRUM FLOWERS—70 bls, Fairfield Chemical Co, Puna
125 bgs, Fairfield Chemical Co, Matadi
PYRIDINE-2-ALDEHYDE—1 cs, Schering Corp, Hamburg
QUEBRACHO EXTRACT—1,596 bgs, River Plate Corp, Buenos Aires
1,173 bgs, Tan American Corp, Buenos Aires
2,039 bgs, Olson Importing Co, Buenos Aires
1,539 bgs, Olson Importing Co, Buenos Aires
2,080 bgs, American Tanners Trading Co, Buenos Aires
2,925 bgs, Barkey Importing Co, Buenos Aires
RADIUM ELEMENT—5 cs, Radium Chemical Co, Antwerp
RED IRON OXIDE—870 bgs, C B Chrystal Co, Malaga
870 bgs, Reichard Coulston, Malaga
REDWOOD CHIPS—20 bgs, S B Penick & Co, Bombay
RHATANY ROOT—4 bgs, S B Penick & Co, Arica
1 bl, S B Penick & Co, Arica
RHODAMINE—40 dms, L & R Organic Products Co, Genoa
RHUBARB ROOT—59 bgs, Meer Corp, Bombay
SAFFLOWER—14 bgs, F D Keller & Son, Vera Cruz
SAGE LEAVES—50 bls, Kellys America Ltd, Naples
SANDALWOOD—200 bgs, George Lueders & Co, Bombay
OIL—3 cs, Volkart Bros, Bombay
SANTONIN—1 cs, A J Fritz Co, Hamburg
SAPONINE—19 cs, A K Peters Co, Valparaiso
SASSAFRAS OIL, ARTIFICIAL—10 dms, Lo Curto & Funk, Kobe
SESAME OIL—139 dms, Welch Holme & Clark, Copenhagen
SEED—334 bgs, Ideal Trading Co, Puerto Barrios
108 bgs, Chemical Bank, Alexandria
HULLED—500 bgs, Chase Manhattan Bank, San Juan Del Sur
200 bgs, Chase Manhattan Bank, Alexandria
SHELLAC—20 bgs, Mantrose Corp, Bremen
27 cks, F H Paul & Stein Bros, Rotterdam
40 bgs, F H Paul & Stein Bros, Rotterdam
SLIPPERY ELM POWDER—20 cs, Judson Sheldon Division, London
SODIUM BICHROMATE—100 dms, Ferro Metal & Chemical Corp, Durban
SILICOFLUORIDE—334 bgs, Baird Chemical Corp, Kobe
STARCH—320 bgs, Rotterdam
TALC—975 bgs, Charles Mathieu, Genoa
TAPIOCA FLOUR—1,400 bgs, Stein Hall & Co, Bangkok
TARTARIC ACID—140 dms, Nylos Trading Co, Genoa
40 bgs, Nylos Trading Co, Genoa
THIODAN—4 dms, Rotterdam
THYME LEAVES—32 bls, Van Loan & Co, Marseille
135 bls, Louis Furth, Marseille
TOLU BALSAM—25 cs, Barranquilla
TONKA BEANS—34 cks, Machado & Co, Port of Spain
93 cks, Royal Bank of Canada, Port of Spain
TRAGACANTH GUM—35 cs, S S Bahary, Beirut
22 bgs, S A I M A Inc, Genoa
TRIACEL—18 cs, C H Brunning Co, Rotterdam
TRICHLOROETHYLENE—34 bbls, Kolon Trading Co, Gdynia
300 dms, Venice
TUNG OIL—280 tons, Garnac Grain Co, Buenos Aires
219 tons, Buenos Aires
ULTRAMARINE BLUE—1 bbl, M Grumbacher, Rotterdam
UREA—3,400 bgs, Nylos Trading Co, Genoa
UVA URSI LEAVES—50 bgs, Alicante
VALERIAN ROOT—195 bgs, S B Penick & Co, Bombay
40 bgs, Norwalk Mills, Bombay
VALONIA CUPS—3,596 bgs, Barkey Importing Co, Izmir
VETIVER OIL—1 dm, Norda Essential Oil & Chemical Co, Port Au Prince
VITAMINS—5 cs, Philipps Export Co, Rotterdam
WATTLE BARK—2,782 bls, M S Kattelhorn & Co, East London
EXTRACT—574 bgs, International Products Corp, Durban
600 bgs, Tanimex Corp, Durban
WAX—10 bgs, Strohmeyer & Arpe, Hamburg
SYNTHETIC—518 bgs, Moore & Munger, Durban
WHITING—2,200 N H Weitzner, Antwerp
WOOL GREASE—52 dms, Bopf Whittan Corp, Genoa
53 dms, Bankers Trust Co, Antwerp
50 dms, Genoa

Los Angeles

AGAR—13 cs, Moorhead & Co, Yokohama
CALCIUM LACTATE—20 bbls, Gauge & Co, Bremen
CARAWAY SEED—400 bgs, B C Ireland & Co, Rotterdam
COPRA—150 long tons, Balfour Guthrie & Co, Manila
1,000 long tons, Paul X Smith, Cebu
500 long tons, American Trust Co, Cebu
1,500 long tons, American Trust Co, Tabaco
2,240 bgs, Balfour Guthrie & Co, Manila
2,240 bgs, Pacific Vegetable Oil Co, Manila
500 long tons, Cargill Inc, Dumaguete
750 long tons, American Trust Co, Zamboanga
EARTH COLORS—1,350 bgs, Naftone Inc, Bremen
NAPHTHALENE FLAKES—400 bgs, Carnegie Chemical Mfg Corp, Amsterdam
PEATMOSS—500 bls, Wilbur Ellis Co, Bremen
500 bls, John Schumacher Co, Bremen
1,000 bls, Bandini Fertilizer Co, Bremen
998 bls, H V Nootbaar Co, Bremen
PEPPER, BLACK—14 bgs, Borneo Sumatra Trading Co, Singapore
86 bgs, Djakarta
PETROLEUM, CRUDE—28,994 tons, General Petroleum Corp, Puerto la Cruz
15,181 tons, The Texas Co, Bahrein
QUEBRACHO EXTRACT—500 bgs, International Products Corp, Buenos Aires
TAPIOCA FLOUR—570 bgs, Stein Hall & Co, Bangkok

Philadelphia

ALCOHOL—84 dms, Rohm & Haas, Bremen
BARYTES—54 bgs, Chas Kurz & Co, Genoa
CALCIUM PHOSPHATE, DIBASIC—2,204 bgs, Antwerp
CASEIN—1,000 bgs, Casein Sales Co, Buenos Aires
500 bgs, F H Paul & Stein Bros, Buenos Aires
CASTOR OIL—1,003 tons, Rohm & Haas, Bombay
CLAY—611 tons, Glasgow
CRESYLIC ACID—140 dms, Glasgow
CRYOLITE—2,125 tons, Penna Salt Manufacturing Co, Ivigtut
CUTTLEFISH BONE—165 cs, R T French, Kobe
FUEL OIL—93,869 bbls, Shell Oil Co, Curacao
102,346 bbls, Greater Terminal Co, Curacao
GLYCERINE—49 tons, International Packers Ltd, Buenos Aires
GYPSUM—11,882 tons National Gypsum Co, Halifax
6,310 tons, U S Gypsum Co, Hantsport
LICORICE ROOT—4,757 bls, Antwerp
PETROLEUM, CRUDE—140,000 bbls, Atlantic Refining Co, Puerto La Cruz
146,557 bbls, Atlantic Refining Co, Banias
123,601 bbls, Socony Mobil Oil Co, Covenas
151,572 bbls, The Texas Co, Las Piedras
389,368 bbls, Gulf Oil Corp, Mina Al Ahmadi
416,535 bbls, Gulf Oil Corp, Puerto La Cruz
129,611 bbls, Ohio Petroleum Co, Punta Cardon
QUEBRACHO POWDER—200 bgs, Bernard Co, Glasgow
RAPESEED—3,300 bgs, R T French, Rotterdam
SILICO MANGANESE—108 tons, International Selling Corp, Kobe
SODIUM SILICOFLUORIDE—668 bgs, Harry Dixon & Sons, Nagoya
250 bgs, Harry Dixon & Sons, Yokohama

San Francisco

ASBESTOS FIBER—200 bgs, Puerto Cabello
CELLULOSE EXTRACT—200 bgs, H J Boutin & Son, Gothenburg
COPRA—1,800 tons, Cargill Inc, Cebu
592 tons, Pacific Vegetable Oil Corp, Cebu
CORN STARCH—1,008 bgs, East Asiatic Co, Antwerp
COTTON LINTERS—100 bls, Cutuco
CUBE POWDER—403 bgs, Callao
FUMIGANT CHLOROPICRIN—64 dms, Wells Fargo Bank, Yokohama
METALDEHYDE POWDER—50 dms, N Y Hanscatic Corp, Havre
MOLASSES—2,614 tons, Southwestern Sugar & Molasses Co, Victorias
OLIVE OIL—50 dms, R Vannucci, Cadiz
PEATMOSS—250 bls, Lastreto Phillips, Bremen
655 bls, H M Newhall & Co, Bremen
1,050 bls, Atkins Kroll & Co, Bremen
PEPPER, BLACK—40 bgs, Bank of California, Salina Cruz
100 bgs, San Antonio
PETROLEUM, CRUDE—11,261 tons, Avon Refinery, Mina Al Ahmadi
VEGETABLE WAX—25 cs, Mitsubishi International Corp, Kobe
WHITING—4,000 bgs, Pluess Staufer, Antwerp

Health News Unit

—*Continued from page 5*

retary and S. Barksdale Penick, Jr., president of S. B. Penick & Co. New York, was named treasurer.

The board of trustees includes representation of association contributors. The first six trustees selected were the Messrs. Smith and Penick and Valentine, representing the American Pharmaceutical Manufacturers' Association; Mr. Hiebert, Proprietary Association; Dr. Ernest Volwiler, American Drug Manufacturers Association, and John W. Dargavel, National Association of Retail Druggists. Other trustees will be announced soon.

The HNI, under the direction of Mr. Shaw, former editorial director of *Newsweek*, has become a centralized public relations voice of the pharmaceutical industry and the entire health team.

Sponsored initially by the ADMA and the APMA, HNI now boasts participation by the Proprietary Association, NARD, the American Pharmaceutical Association, the National Association of Chain Drug Stores and the Federal Wholesale Druggists Association.

Other organizations, such as the National Wholesale Druggists Association, the American Medical Association and the American Hospital Association will decide their course later, Mr. Shaw stated.

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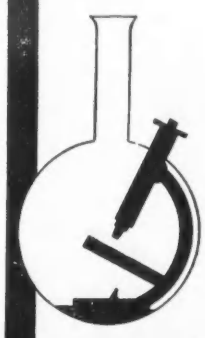

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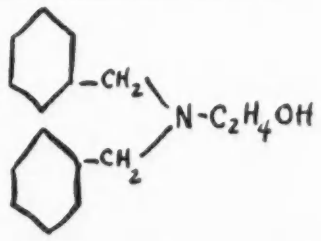

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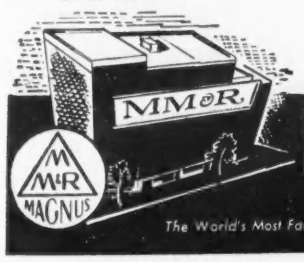

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Essential Oils, Aromatics

Price developments on spot last week centered on the mint oils. Both peppermint and spearmint edged lower on the wave of newcrop appearing from source. The new listing for natural peppermint ranged from $4.75 to $5 per pound while redistilled material prices ranged from $5.20 to $5.50. Spearmint oil was selling at between $4.35 and $4.75 per pound or 15 cents less than previously quoted. There was information that some spearmint oil was being shaded down to as low as $4.25 per pound. The softened tone of spearmint oil has been attributed to the second cutting of this years crop, while the peppermint situation is reportedly marked down to the continued presence of low grade oil in the market. Excessive weeds, some dealers report, resulted in larger quantities of low grade oil appearing.

Citronella oil, on the heels of a delay of material, was advanced in price in some quarters. However, the movement appears to have been only ephemeral and most listings were shaded down again by the weeks end.

Cumin oil continued unavailable although reports arrived at spot that some should be in by the end of the month.

Lime oil advanced 15 cents per pound to a $4 inside listing. Dealers attributed the advance to persisting mild weather and Mexican government regulations controlling the export of lime material from that country.

Palmarosa, on the heels of heavy newcrop reports from source, dropped in price last week. The current listing is $8.50 to $9.00 per pound.

Patchouli softened on spot, dropping 25 cents to a $6 per pound listing.

Pine oil derivatives, such as terpineol and terpinyl acetate were in a stronger position attributed by dealers to the shrinking supply of terpentine. Higher prices have been noted in many areas of the market.

A recent importers report noted that black and white pepper import figures are running at the same rate this year as they were last year and it was estimated that when the final figures are in they will equal those of 1955. Paprika imports were noted as sharply lower although newcrop shipments of Spanish material will be arriving during the next three months and thereby bring the total up. Indian celery imports were noted as lagging and shipments enroute were said to be not large.

Price Trends

Advanced

Oil, lime, 15c. per lb.

Reduced

Oil, palmarosa, 50c. per lb.
Patchouli, 25c. per lb.
Peppermint, nat., 25c. per lb.
Redistilled, 30c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
138.21	138.29	137.85	134.84

For Current Prices see Page 9

Essential Oils

Bois de rose—The market continued to hold this oil relatively firm on spot last week, dealers here reported, as listings, advanced recently from the low point the material had sunk to a couple of months ago, remained steady and unchanged. Shadings of prices continued to be reported in some areas, though this appears not as widespread as was previously noted. The market is not yet considered to be a pillar of strength. However, compared to its condition and position a number of months back, the mere fact that it is holding steady on spot at a relatively good price is strength factor enough for the material at this time.

Citronella—Dealers in some quarters here advanced the listing of Formosan quality material following a delay in shipment from primary source. However, the delay was only momentary and a good quantity of material was again working into the market by weeks end. The advance, about 20c. per pound, was officially held by some dealers but most felt that the situation was an easy one and that the advanced prices were being shaded for the most part.

Cumin—This oil continued nearly unavailable on spot. One dealer noted, however, that some material will arrive in spot in time for deliveries at the end of the month.

Lime—This oil advanced 15c. per pound last week to a listing on spot of $4 to $4.25 per pound, according to quality. Dealers attribute the continued strength in lime to the mild weather that has persisted beyond the seasonal period and held citrus demand higher than usual, and Mexican government regulations controlling the export of lime material from that country. For the most part, dealers noted, the year has been an exceptionally good one for the citrus oils.

Palmarosa—This oil (Turkish geranium) softened on spot last week, dealers here reported. The current listing is $8.50 to $9 per pound. The soft tone is attributed to information from the primary market to the effect that the newcrop will be large. Further shifts may be anticipated if the crop proves to be extraordinarily outsized.

Patchouli—This oil softened on the spot market last week, dealers here reported. The new listing of $6 per pound is 25c. less than that previously quoted.

Peppermint—Dealers continued to note last week that the situation in this oil is still influenced to some degree by the presence of offerings of some rather low grade oil. Excessive weeds, it is said, resulted in larger quantities of low grade oil appearing on the market. The price again slipped on the spot market to a level of $4.75 to $5 per pound for natural peppermint oil and $5.20 to $5.50 per pound for redistilled material. Prices in this oil started to soften immediately after government reports noted the extent of this years crop. The present situation is expected to continue until the market is either cleared of the glut of poor quality being sold, or until more material is assimilated.

Spearmint — The soft tone that has existed in this market ever since early government reports noted the large newcrop, resulted in further price shifts last week. The current quote of $4.35 per pound is 15c. less than that previously listed. Dealers attribute this price shift to the second cutting of this years crop.

Seeds and Spices Imports: 1949-1956

Following are data compiled indicating seeds and spice in ports for 1949-1953 (average), 1954-1955, and the first nine months of this year.

	1949-1953 Average	1954	1955	1956 To October 1st
Black Pepper	27,423	35,55C	32,541	27,000
White Pepper	1,229	2,388	2,744	1,895
Paprika	7,530	7,866	9,280	6,890
Celery	1,821	1,353	1,803	768
Ceylon Cinnamon	813	1,356	828	710
Caraway	5,552	6,161	7,182	4,697
Cardamons	182	163	175	124
Capsicums	2,177	2,813	2,777	2,221
Cassia	10,346	10,313	11,990	6,519
Cloves	2,588	3,874	1,937	2,017
Ginger	3,778	2,580	2,474	3,451
Nutmegs	4,915	5,303	5,194	3,972
Mace	643	672	618	401
Pimento	1,710	1,915	1,087	606
Sage	1,039	1,432	1,893	1,624

Total in pounds (000) omitted.

Essential Oils

The market situation is expected to continue easy until more of the newcrop material is assimilated.

Aromatic Chemicals

Prices remained unmoved from previous positions last week, producers here reported, as citronella and geranium derivatives continued soft in reflection of their source materials. Slight fluctuations in the citronella market might eventually effect the chemicals, but it is hardly probable. Pine oil derivatives, such as terpineol and terpinyl acetate are in a strong position and with a shrinking supply of turpentine there appears to be little probability for an immediate or nearby reversal in the trend. Some grades of terpineol continue to be quoted at 43c. to 45c. per pound but suppliers in certain quarters state that they are having little difficulty in obtaining slightly higher quotes.

Seeds and Spices

A spot dealers comparison of imports (see table, p. 54) points out a number of weak points in the general supply picture. Black and white peppers are running at the same rate as last year and it is estimated that when the final figures are in they will equal those of 1955. Paprika imports are sharply lower although newcrop shipments of Spanish will be arriving during the next three months and thereby bring the total up. It is doubtful, however, that the market will come close to 1955 imports and it demonstrates clearly why there is a scarcity of sorts on spot at this time. Indian celery imports are lagging and shipments enroute are not large because of the firm market abroad. October and November are normally heavy months for caraway imports and thus they will undoubtedly bring up the total to last year's level. Capsicums and red peppers are apt to give dealers trouble for the balance of the year as newcrop Japanese are not likely to appear in any volume before the first of the year. Shipment of other grades are merely odds and ends. Cassias are lagging.

Cloves imports will be slightly heavier than a year ago but in view of the small crop in prospect, this increase should not cause concern. By far the largest share of the ginger market this year has been cochin, and other qualities are actually tight on the spot. Nutmeg imports, as well as mace, are beginning to reflect the world shortage. Pimento, cinnamon and cardamons are showing the effects of high prices.

Pepper—Once again spot New York values came under pressure, having lost roughly 1c. in light trading when spot Malabar/Lampong reached 27½c. on Wednesday. For the most part, lots released on dock were sold at new low levels, while goods in warehouse tended to hold steady. In the virtual absence of dealer-to-dealer trading, most sales went to gringers who filled in whatever was needed. Attempts to replace such sales through purchases of afloat or for shipment failed largely because Indian shippers held their asking prices roughly 1c. above spot, New York and Singapore, while a more willing seller, responding to bids only occasionally and held shipment prices just about 1c. below spot New York. Accordingly, very little pepper was bought for shipment and since the poor condition of the spot market would seem to discourage further consignments, spot may get a breathing spell enabling it to dispose of some of the present overhang.

The trade in general is exercising great condition in its approach to the market, considering it equally possible that Indian resistance will suddenly give way to the competition from Lampong as that Singapore will harden following the Indian example. As a result, overall activity is likely to remain subdued for a while longer.

Hormone Injector Rights Acquired by Chas. Pfizer

Chas. Pfizer & Co., Brooklyn, N. Y., has acquired exclusive patent rights to a device used for injecting hormone pellets to caponize poultry and stimulate the growth of beef cattle.

According to Pfizer president John E. McKeen, the company will produce and sell the patented injection device called an implanter and the "Capette" brand of diethylstilbestrol pellets formerly made by Wick & Fry, Inc., Cumberland, Ind. Both products are widely used in the poultry industry.

PHS Establishes Unit To Study Tranquilizers

The Public Health Service has established a new unit to assist in the development of scientifically sound research programs on tranquilizing and other drugs used in the treatment of mental illness.

The unit is called the Psychopharmacology Service Center in the National Institute of Mental Health in Bethesda, Md.

Congress this year appropriated $2 million for an intensive research program to study these drugs.

Under the auspices of the National Institute of Mental Health, the center will be responsible for developing a nationwide research program to stimulate support for basic research and pre-clinical and early screening and testing of the tranquilizing and other phenotropic drugs.

Dr. Jonathan O. Cole has been appointed psychiatrist in charge of the center. As activities of the center develop, technical assistance and research advisory services will be provided to scientists.

Pesticide Tolerances Asked By duPont, Rohm & Haas

A residue tolerance of one part per million for the pesticide chemical "Diuron" in or on grapes was proposed in a petition filed by E. I. duPont de Nemours & Co., Wilmington, Del., it was announced last week by the Food and Drug Administration. "Diuron" was described chemically as 3-(3,4-dichlorophenyl)-1,1-dimethylurea.

Rohm & Haas Company, Philadelphia, filed a petition proposing the establishment of a tolerance of 15 parts per million for residues of diethyl diphenyl dichloroethane on cabbage, broccoli, brussels sprouts, cauliflower and kohlrabi.

Bids Wanted

Calcium chloride, 63,000 lbs., dihydrate tech., inv. 374, Oct. 26, Navy Purchasing Office, Navy Dept., Naval Supply Activities, N. Y., 3rd Ave. & 29th St., Bklyn. 32, N. Y.

Ethyl acetate, 106 gals., inv. 22074, Oct. 24, Gov. Printing Office, Purchasing Agent, Washington 25, D. C.

Fish oil, 3,900 gals., East & West Coast, inv. 1230, Nov. 2, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Insecticide, large quantity DDT, liquid, airplane spray, residual type, 20% DDT, export pack, East & West Coast, inv. 376, Nov. 5, Navy Purchasing Office, Navy Dept., Naval Supply Activities, N. Y., 3rd Ave. & 29th St., Bklyn. 32, N. Y.

Methylene chloride, 16,100 gals., grade B, East & West Coast, inv. 1080, Oct. 31, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Nitric acid, 1,800 lbs., tech., inv. 67, Oct. 24, Purchasing & Contracting Office, Letterkenny Ordnance Depot, Chambersburg, Pa.

Paint, 100 gals. exterior house woodwork primer coating, 100 gals. exterior and interior gloss, shore use, 200 gals. emulsion type rubber paint, inv. 359, Oct. 25, Navy Purchasing Office, Navy Dept., 1206 Santee St., Los Angeles 15, Calif.; 1,200 gals. titanium-lead-zinc and oil, exterior paint, 850 gals. syn. semigloss interior enamel, inv. RIT-90433-R, Oct. 24, Gen. Services Adm., Region 3, Business Service Center, 7th & D Sts., S.W., Washington 25, D. C.; 64,000 gals. in 5-gal. dms. cellulose nitrate, clear dope, inv. 1152, Oct. 29, 1,900 gals. exterior and interior gloss enamel, 550 gals. semigloss enamel, East & West Coast, inv. 1126, Oct. 30, 4,112 gals. striping and stenciling enamel, 800 gals. interior ship enamel, Norfolk, Va., inv. 1178, Oct. 30, 13,670 interior, shore use, gloss enamel, East & West Coast, inv. 1150, Oct. 29, 14,760 gals. interior ship enamel, East & West Coast, inv. 1180, Oct. 31, 9,000 gals. interior deck enamel, East & West Coast, inv. 1149, Oct. 29, 3,100 gals. exterior and interior ship enamel, Norfolk, Va.; inv. 1151, Oct. 29, 124,000 gals. aircraft, gloss enamel, Topeka AFD, inv. 1167, Oct. 30, 3,300 gals. interior enamel undercoat, East & West Coast, inv. 1153, Oct. 29, 3,400 qts. camouflage lacquer, 900 qts. cellulose nitrate lacquer, 3,000 pts. moisture & fungus resist. varnish, Topeka AFD, inv. 1141, Oct. 31.

35,600 gals. interior, one coat flat, oil paint, East & West Coast, inv. 1146, Oct. 29, 4,436 gals. exterior, semigloss paint, East & West Coast, inv. 1147, Oct. 29, 7,600 gals. interior, finish flat, shore use, oil paint, East & West Coast, inv. 1148, Oct. 30, 500 gals. gasoline removable, lusterless camouflage paste paint, East & West Coast, inv. 1135, Oct. 24, 3,600 gals. heat resist. aluminum type paint, East & West Coast, inv. 1136, Nov. 1, 57,835 gals. general purpose, exterior oil paint, East & West Coast, inv. 1139, Oct. 29, 1,600 gals. coal-tar-pitch base, bituminous blended paint, inv. 1144, Oct. 29, 1,148 gals. rubber, solvent type paint, Cherry Point, N. C., inv. 1137, Oct. 29, 400 gals. exterior, shore use, oil paint, wood and metal, fume resist., East & West Coast, inv. 1175, Oct. 29, 2,300 gals. outside paint, East & West Coast, inv. 1176, Oct. 30, 2,100 qts. and 4,000 gals. aircraft, gloss enamel, 500 gals. camouflage enamel, 2,500 gals. camouflage lacquer, inv. 1168, Oct. 30, 95,500 gals. solvent type paint remover, East & West Coast, inv. 1154, Oct. 29, 69,300 lbs. red lead pigment, Mare Island, Vallejo, Calif., inv. 1247, Nov. 2, 50,400 lbs. zinc yellow pigment, Norfolk, Ptsmh., Va., inv. 1248, Nov. 2, 500 gals. general purpose, insulating, electric varnish, Oakland, Calif., inv. 1233, Nov. 2, 6,714 gals. exterior and interior, phenolic oil varnish, Norfolk, Va.; inv. 1165, Nov. 1, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Phenol, tech., Mare Island, Vallejo, Calif., inv. 1232, Nov. 2, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Silver cyanide, 1,680 lbs., powd., tech. grade, East & West Coast, inv. 1035, Oct. 30, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Trichloroethylene, 2,150 gals., tech., inv. 14, Oct. 23, Contracting Officer, San Francisco Chem. Procurement Dist., 1515 Clay St., Oakland 12, Calif.

Tung oil, 27,670 lbs., raw, Norfolk, Ptsmh., Va., inv. 1234, Nov. 2, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Zinc oxide, 67,100 lbs., inv. CML-20, Nov. 5, N. Y. Chem. Procurement Dist., 180 Varick St., New York, N. Y.

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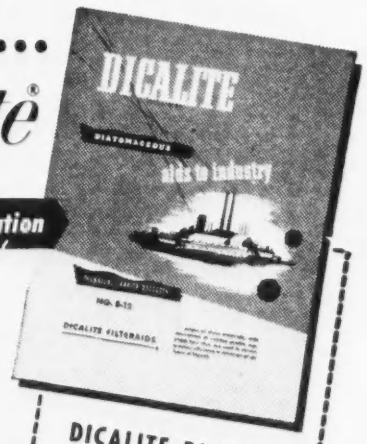

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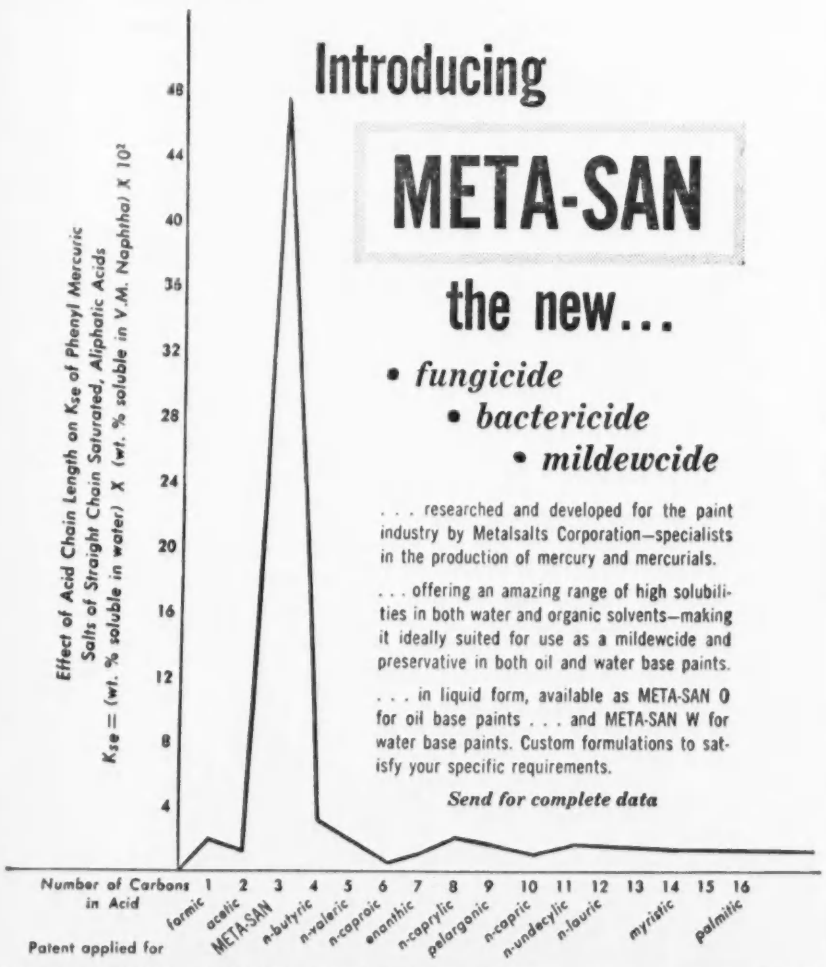
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Coatings Materials

Signs of a lively fourth quarter were developing all along the line in last week's market. Paced by plasticizers and synthetic resins, sales of coatings materials showed an appreciable increase over the previous week's sales. Antimony oxide was reported to be doing better, as were lead and zinc oxides. Red lead was in particularly strong demand because of the high level of production in the steel industry. Moreover, many coatings materials, notably pigments and synthetic resins, were beginning to profit from the long awaited boom in automobile production. October production should reach 500,000, according to informed sources, and climb to a rate of 650,000 per month by mid-November.

Pricewise, no changes occurred in the market, other than those reported here previously. With consuming interest in a seasonal upswing, there was no downward pressure on prices, and any advances that seemed appropriate were announced before and at the start of the quarter. Chrome colors have been advanced on spot to 44¾c. per pound in carlots and 45½c. per pound in less than carlots for chromium oxide. Chrome green hydrated has been moved up to $1.20 per pound. These changes will be effective for contract buyers on November 12. October 1 price advances included carbon black, diethyl phthalate, dimethyl phthalate, barytes, gilsonite and a few grades of synthetic resins. The only reduction was in dioctyl phthalate, which declined 2c. per pound.

Business volume in liquid shellac was reported to be on the increase as a result of the recent cold spell. Market sources expect further gains in the weeks immediately ahead. Unchanged prices on orange shellac are 49c. per pound for lemon No. 1; 47c. per pound for No. 2, and 46c. per pound for superfine.

Price Trends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
100.30	100.30	100.14	97.46

For Current Prices see Page 9

Prime Pigments

Antimony Oxide—Sales are moving upwards following a prolonged seasonal lull. Unchanged quotations are 27c. per pound for carlots and 28½c. per pound for less than carlots. Supplies are generally plentiful, and in some segments of the industry they are on the long side.

Carbon Black—October 1 price advances brought quotations to 7¼c. to 12c. per pound for paint quality channel black and 5¾c. to 6¾c. per pound for furnace black. Fourth quarter buying interest in these materials has thus far matched optimistic expectations. Supplies are ample.

Cadmium Colors—Cadmium selendide lithopones have been steady pricewise for the past seven months. Previously prices had been moved up substantially to match a hike in the price of selenium. Mercury lithopones were introduced at a price considerably lower than that of the selendides and have been held steady.

Chrome Colors—Contract prices will be advanced November 12c. to 44¾c. per pound in carlots and 45½c. per pound in less than carlots for chromium oxide. Chrome green hydrated is scheduled to be moved up to $1.20 per pound, effective the same date. Spot prices have already been advanced.

Copper Oxide—Quotations were still unchanged at 54c. per pound for black and 62½c. to 64½c. per pound for red. Buying interest was routine and supplies adequate.

Dry Colors—Word on first of the year price changes has not been received yet, but sources close to the industry say that revisions are apt to be numerous. Demand has broadened consistently since the end of the summer and is still on the increase. Most of these materials are reported to be in good supply.

Lead Pigments—Last week's sales volume showed improvement, with consumers emphasizing red lead. This development is linked to the high rate of operations in the steel industry. All varieties of lead pigments were reported to be in a good supply position.

Lacquer Materials

Dibutyl Phthalate—The most recent price revision in this market was an increase in drum differentials posted October 1 by a top manufacturer. Other producers had already put the increase into effect at the start of the third quarter. In last week's market prices were steady against a seasonally good rate of demand.

Dimethyl Phthalate—Aggressive consuming interest continued to feature this material. Along with diethyl phthalate it advanced in price ½c. per pound on October 1. Supplies are ample for all consumer requirements.

Dioctyl Phthalate—Despite a seasonally brisk rate of demand competition for available outlets is keen. With a recent 2c. reduction in prices, though, this competition is less likely to take the form of price shading, producers said. Supplies are in good balance with the current market, and production facilities are ample to take care of any upswing in demand.

Sebacates—This material is encountering aggressive fourth quarter demand. Prices are steady at long prevailing quotations and supplies are in good balance.

Tricresyl Phosphate—Production schedules were lowered during the last six months in order to bring supplies into better harmony with demand. Current stocks are said to be in balance. Sales are seasonally good.

Triphenyl Phosphate—Prices were firm at 41½c. per pound for carlots and 43½c. per pound for less than carlots. These quotations were established several months ago as the result of an advance of 1½c. per pound.

Miscellaneous

Casein—Spot prices were unchanged at 22c. to 23½c. per pound, duty paid. Futures ranged 21c. to 22c. per pound for delivery in November. Offerings varied between moderate and heavy while demand continued restricted to immediate requirements. Reports of a heavy yield in the Argentine were said to account for the lag of buying interest.

Glue—The following figures compiled by the Bureau of Census indicate production, shipments and stocks of bone and hide glue in thousands of pounds during August with July's figures shown for comparison.

Production

	August	July
Hide, glue, total	4,218	3,936
Low grade	1,659	1,739
Medium grade	1,269	1,285
High grade	1,030	737
Extra high grade	260	173
Bone, glue, total	4,721	4,204
Green	4,601	3,589
Extracted	120	615
Glue, total	8,939	8,140

Shipments

Hide, glue total	4,347	3,992
Low grade	1,701	1,601
Medium grade	1,204	971
High grade	849	923
Extra high grade	593	497
Bone, glue, total	5,498	3,418
Green	4,761	2,827
Extracted	737	591
Glue, total	9,845	7,410

Stocks

Hide, glue, total	21,898	22,027
Low grade	6,429	6,471
Medium grade	6,193	6,128
High grade	5,799	5,618
Extra high grade	3,477	3,810
Bone, glue, total	9,163	9,940
Green	7,386	7,546
Extracted	1,777	2,394
Glue, total	31,061	31,967

Natural Resins

Gum—Routine buying interest was again restricted to prompt requirements. Prices were steady and unchanged with Singapore dammars ranging 46¼c. to 48c. per pound for No. 1 in cases; 45¼c. to 47c. per pound for bags; 31¾c. to 33c. per pound for No. 2, and 16¾c. per pound for dust.

Shellac—Business volume in liquid shellac has continued to increase, stimulated by the recent cold spell. Further gains in this market are anticipated in the weeks ahead. Prices were uniformly

steady with a firm undertone. Orange shellac quotations are 49c. per pound for lemon No. 1; 47c. per pound for No. 2, and 46c. per pound for superfine.

Fillers and Inerts

Asphalt—Shipments of asphalt roofing, sidings and brick siding improved in August when compared with July figures but ran behind shipments registered in August, 1955, according to a report released by the Department of Commerce. Asphalt board products shipments declined 10 percent in August and were 32 percent below August 1955 shipments. The August increases were as follows:—Roofing, six percent; sidings 16 percent, and insulated brick siding, 18 percent. Shipments of roofing were ten percent below August, 1955, while the latter two materials were four percent lower. Shipments during the first eight months of 1956 ran 4-5 percent below the corresponding period of last year.

Gilsonite—The trade is still awaiting word concerning seven to eight percent increases which major producers are said to be contemplating. All available supplies have been moving steadily but no shortages have been reported.

Rottenstone—As reported here previously, prices advanced to 3¾c. per pound for five ton lots and 4¼c. per pound for one ton lots, effective October 1. The advances covered cost increases absorbed throughout the year.

Synthetic Resins

Producers are optimistic about the sales outlook for the balance of the year. Reports from consuming industries indicate that industrial construction and automobile manufacture are headed for a peak quarter. Production of automobiles this month is apt to top 500,000 and should level out at 650,000 per month during November, industry sources believe.

Alkyds—Only one variety was changed in price at the start of the fourth quarter. Sales are lively, reflecting production boosts in consuming outlets.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Oct. 12	Mon. Oct. 15	Tues. Oct. 16	Wed. Oct. 17	Thur. Oct. 18
Drums—					
N	...	...	...	...	$8.20
WG	$8.55	$8.50	...	...	8.60
WW	8.80	8.90	$8.75	...	...
Bags—					
G	...	...	8.10	...	...
M	8.10	8.11	8.10	$8.17	...
WW	...	...	...	...	8.70

Tankcars (for week ended Oct. 12)—
M or better, $7.75

Sales, USDA

477*	707*	629*	1,069*	650*

New York
(Per 100 lbs., c.l., Friday)
B through N, $9.40; WG, $9.55; WW, $9.65

Turpentine, Gum

(USDA, per gal., 7.2 lbs)

Price	.555	...	.556§	.555	.555
Sales	8,000¶	...	32,000¶	4,000¶	4,000¶

New York, Friday, per gal. 7 lbs., tankcars, 63½c., l.c.l., 75c.

* Drums equivalent. ¶ Gallons. § Average price.

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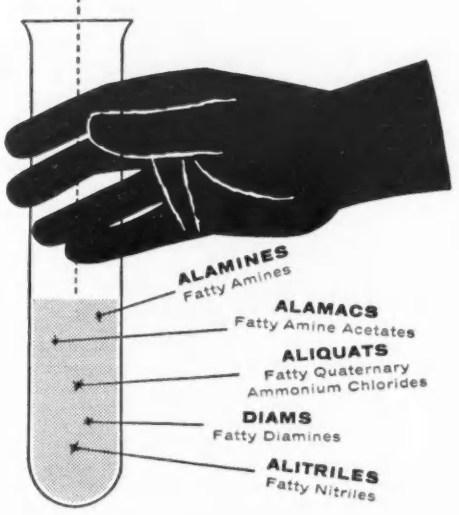

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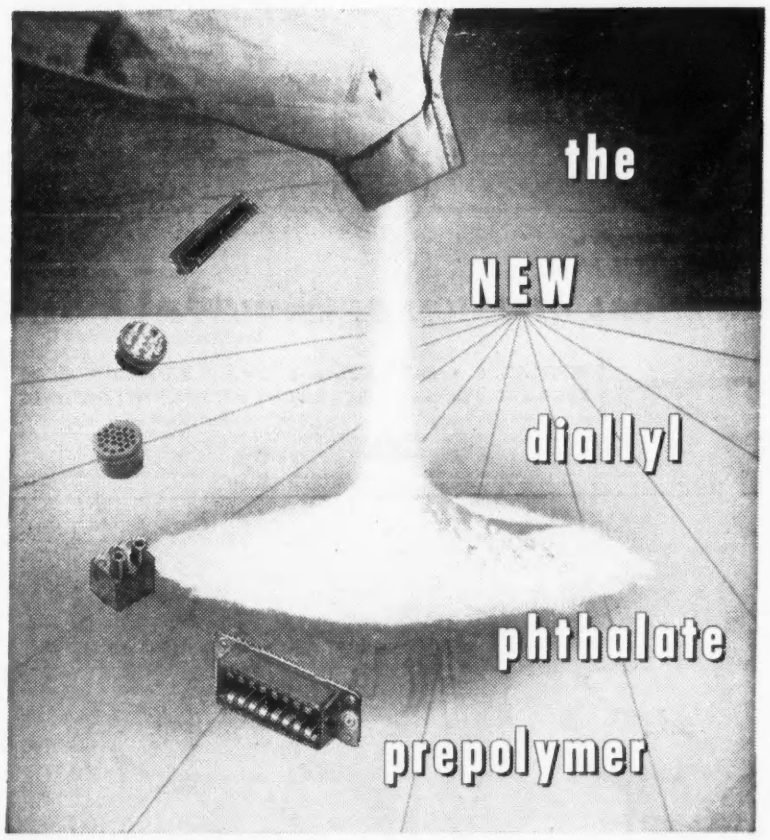

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NITRO, WEST VIRGINIA
Department 22

Paint Makers Ask for Added Protection

—Continued from page 3

ited when it comes to bargaining trade agreements."

The Boggs committee recently concluded two weeks of hearings on trade and tariff policies which were to gather data on which congress can legislate in the future. Further hearings are to be held abroad next month by the committee before filing its report.

International Trade Benefit Cited

In its statement to the committee, Standard Oil argued that maintenance and expansion of international trade is of direct benefit to the United States. Noting that this country is now the world's most highly-productive nation and is capable of turning out amounts of goods that exceed our domestic requirements, the statement said:—

"This leaves us with three choices. One is to create outlets by giving our surplus production away, which, though paid for by the American taxpayer, may on occasion be an effective instrument in our foreign policy. The second choice is large-scale US foreign investment, which creates markets for US output at the same time it provides the dollars to pay for the goods. The third choice is to provide outlets in the United States for the goods of other countries, enabling them to earn the means to buy our production.

"In working toward the desirable goal of higher levels of international trade, it is Jersey's opinion that the United States government should continue its policies of trade leadership which are of such material benefit to all our citizens.

"We do not contend that all our tariffs are too high or that we should seek to abolish all tariffs. But it does seem advantageous that our aim should be in the general direction of reducing tariffs and quota restrictions, and of simplifying customs procedures so that expanding international trade may be promoted on a multilateral and non-discriminatory basis.

Mutual Action Needed

"This should be done, we believe, by mutual action, our interests best being served by the avoidance of unilateral concessions which would deprive us of bargaining power to get reciprocal concessions from other nations."

J. D. Zellerbach, chairman of the Committee for Economic Development and president of Crown Zellerbach Corporation, said that his organization did not favor a policy of unlimited free trade, but felt that further tariff reductions could be made on a selective basis.

He also recommended that the present trade agreements law be extended for a five-year period in 1956 to provide greater stability in government policy. He said that all tariffs above 50 percent advalorem should be lowered to that level and no tariff apply to goods not produced in substantial quantities in the United States.

DuPont to Be

—Continued from page 7

duPont experts and executives will be supplemented by recorded interviews in the many foreign languages represented by company employees.

In the series of programs, the Voice will explain the organization of the corporation and its history and outline the widespread sharing of benefits under the American economic system. Programs will cover such subjects as employee relations, ownership, community relations, foreign relations, products and research.

The subjects of the foreign language interviews will vary from language to language and will involve duPont personnel ranging from the executive and scientific levels to the clerical employees. The VOA Czechoslovakia service, for instance, will record talks with a textile fibers research chemist who was born and schooled in Slovakia, while the Polish service will interview a secretary in the auditing section. Some of the duPont employees, who are fluent in more than one foreign language, will participate in several recorded programs.

Programs will be prepared by the Voice for broadcast in the following languages:—Albanian, Arabic, Armenian, Bulgarian, Burmese, Chinese (Amoy, Mandarin, and Cantonese dialects), Czech and Slovak, Estonian, French, Georgian, German (for Austria and Germany), Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Latvian, Lithuanian, Persian, Polish, Rumanian, Russian, Spanish, Turkish, Ukranian, Serbo-Croat, and English.

American Lacquer Elects

Robert L. Buttle has joined American Lacquer Solvents Company, Phoenixville, Pa., and has been elected vice-president and sales manager. Ernest H. Grice has been elected executive vice-president and J. C. Osten, the technical director, has been elected a vice-president.

Plymouth

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Walter Appointed by duPont To Fabrics Production Post

E. I. duPont de Nemours & Co., Wilmington, Del., has named Fred E. Walter manager of production of the fabrics division. Mr. Walter was formerly manager of duPont's Toledo, Ohio, finishes plant and before that was manager of the Fort Madison, Iowa, finishes plant. His headquarters will be in Wilmington, Del.

Mr. Walter joined duPont in 1930 as a chemist in the paint laboratory at Parlin, N. J. During World War II he was a production supervisor in explosives plants. In 1951 he became assistant plant manager in Parlin and became plant manager at Fort Madison in 1954.

Carbide Is Prepared

—Continued from page 5

spectometry, microscopy, physical testing, and X-ray diffraction studies.

The architects have planned a functional cross-shaped structure for the main building. The arrangement centralizes common facilities, such as elevators, washrooms and storage, where the arms of the cross meet, reducing walking distances and traffic density to a minimum. A degree of privacy is thus obtained that is accomplished conventionally only in four separate buildings.

The site of the new facilities is an eighteen-acre tract adjacent to Carbide's present research facilities. Long-range plans call for a large experimental center in this area.

In addition to the main building there will be a laboratory 240 feet long and forty feet wide with facilities for studying continuous processes at pressures up to several thousand atmospheres. The plastics pilot scale building will be a three-story structure, one hundred by seventy feet.

Manpower Study

—Continued from page 4

to relieve a critical shortage of atomic scientists and engineers.

The forum survey will be the first step in a four-part manpower study based on the principle that the rate of advancement of nuclear science and engineering in the United States depends on the availability, now and in coming years, of an adequate number of persons trained in engineering and in the physical, mathematical and natural sciences.

Other surveys will cover the manpower needs of: 1, Industry in carrying out work under contract to the commission; 2, universities and colleges and non-profit research institutions for their research and training programs; and 3, the government's requirements for direct employment of atomic scientists and engineers.

Firms included in the survey will be asked to report on the number; educational level and specialized experience of professional employees engaged in research and development; design and engineering; construction; operations, production and manufacturing; and management and administration in ten principal fields of atomic energy. These are: Research reactors and allied facilities, power reactors, propulsion reactors, reactor components, reactor materials, nuclear fuels, radiation laboratory equipment and facilities, instrumentation, particle accelerators, and by-product (isotope) applications.

The survey being conducted by the forum will require about five months for completion. Arrangements for conducting other surveys will be announced as they are made.

Chicago Chemists to Meet

The November meeting of the Chicago chapter of the Society of Cosmetic Chemists will be held November 13 at Henrici's Restaurant, the Merchandise Mart, Chicago. Included in the activities will be the installation of officers and an address by George Kolar, president of Kolar Laboratories.

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Flash °F	465	475	515
Pour °F	30	35	55
Viscosity 210°F, Saybolt Sec.	107	137	307
Viscosity Index	—130	—130	—108
Distn. (1mm) °F 5%	362	366	412
30%	431	435	514
Evapn. Loss mg/10g. (1 hr. oven 100°C)	5	5	4

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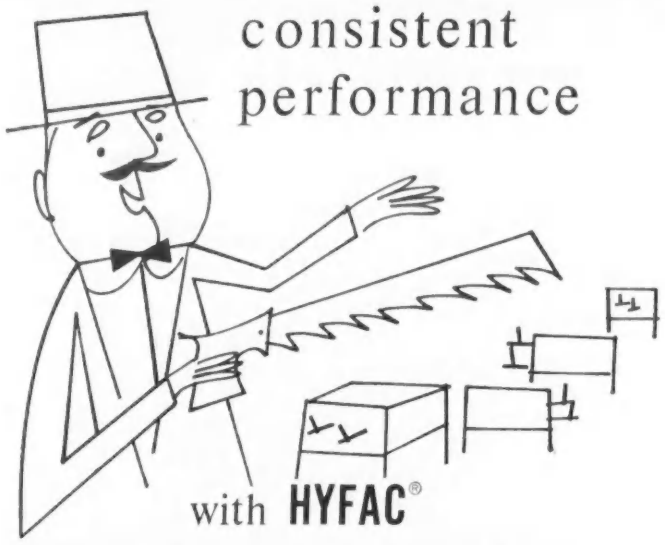

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Oils, Fats and Waxes

Trading in edible grades was reported fairly active, but did not reach the heavy volume of the previous week. Cottonseed oil was irregular and closed slightly lower. Early gains in soybean oil were not sustained and prices closed unchanged and steady. Corn oil remained unchanged and firm, with offers scarce. Peanut oil was easier and sharply lower, and in limited supply. Producers advanced bulk shortening 1½ cents per pound.

Improved interest and trading in tallow lifted the market fractionally especially for top grades. Greases also were stronger. Trading was reported fairly active, with offerings scarce. Lard was firmer and advanced fractionally. Oleo stearine also was higher, with oleo oil unchanged, but firm.

Higher cost of flaxseed, coupled with lower linseed meal caused crushers to advance oil schedule 7/10 cent per pound. Consumers continued to absorb large lots against contracts, but limited new purchases to fill-in needs. Refined fish oils were reduced 1 cent per pound. Crude menhaden oil was quiet, but was maintained at prevailing quotations. Cod oil replacements were moved at slightly lower levels which were reflected in the spot market. Premiums of 2 cents for rapeseed oil on spot were withdrawn and prices were reduced to the November-December delivery level.

Consumer demand for carnauba wax was more active last week. Prices of all grades remained steady and were still below the cost of replacements from Brazil. Scarcity of offers of crude beeswax from primary sources continued to restrict business. Candelilla wax was scarce on spot and in firm hands.

Price Trends

Advanced
Acid, linseed oil, 7/10c. per lb.
Greases, ⅛c. to ¼c. per lb.
Lard, cash, ¾c. per lb.
Oil, linseed, 7 10c. per lb.
Oleo stearine, ½c. per lb.
Tallow, edible, ½c. per lb.
inedible, ¼c. per lb.

Reduced
Cocoa butter, 1c. per lb.
Linseed meal, $1 per ton.
Oil, cod, ¼c. per lb.
Cottonseed, crude, ⅛c. per lb.
refd., ⅛c. per lb.
Fish, refd., 1c. per lb.
Peanut, crude, ½c. per lb.
refd., ½c. per lb.
Rapeseed, spot, 2c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Oct. 21, 1955
116.65	116.97	115.72	104.19

For Current Prices see Page 9

Vegetable Oils

Castor—Firmer tone featured this market due to higher cost of imported oil. Domestic grades were unchanged, but firmer and tended higher. No. 1 Brazilian was more active and stronger with sales at 18¼c. per pound, tankcars, New York, prompt delivery. No. 3 technical also was firmer and ranged from 17¼c. to 17½c. per pound, tankcars, as to seller.

Coconut—Business was reported light and spotty. Crude was sold at 10⅜c. per pound, tankcars, f.o.b. Pacific coast, prompt shipment and 10⅞c. asked. New York market was nominal at 12c., tankcars, prompt and later delivery.

Corn—This market remained firm, with crude sales at 14c. and bid, and 14¼c. asked for tankcars, f.o.b. mills, prompt shipment. Refined oil was maintained at 14.60c. per pound, tankcars, New York, prompt delivery.

Cottonseed—Futures market was a narrow affair last week. Profittaking caused market to weaken and early price gains were not sustained. Quotations closed slightly lower for all positions. This liquidation was attributed in part to the lack of definite news from Washington on export allocations. Trading in refined oil for domestic requirements was quite active for prompt delivery during the week. Improved buying also was reported in bulk shortening. Refined salad oil was easier with crude and was available at 17c. per pound, tankcars, New York, prompt delivery.

Trading in crude was reported moderate. Market developed an easier tone with refined futures and was off fractionally. In the Valley tankcars eased to 13⅜c. per pound, f.o.b. mills, prompt delivery. The southeast was nominal at 13½c; Lubbock, 13⅜c. asked and Waco, 13¾c. asked.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, October 19, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Oct.	38	15.65	15.33	Exp.
Dec.	321	15.95	15.48	15.71S
Jan.	12	15.80	15.35	15.65@15.67
Mar.	385	16.09	15.72	15.86S
May	370	16.14	15.77	15.94S
July	143	16.15	15.74	15.95S
Sept.	38	16.38	15.60	15.87
Oct.	4	15.75	15.75	15.72@15.76
Dec.	6	15.82	15.75	15.50@15.60

Total sales and switches, 1,317 contracts.

Linseed—Raw oil was stronger and advanced 7/10c. per pound with higher flaxseed. Lower meal market also was a contributing factor. Trading in oil was light and confined to actual needs. Tankcars were quoted at 13.4c. per pound, f.o.b. Minneapolis, October forward delivery. Withdrawals against current contracts continued active.

Flaxseed—Flaxseed crushed in September totaled 2,444,070 bushels and for the first two months of this season amounted to 3,239,810 bushels. Market stronger and sharply higher.

Minneapolis.—Crushers advanced bids on cash flaxseed 10c. per bushel to $3.35, spot and to-arrive, basis Minneapolis. Extremely heavy storage, indicated by government estimate of 30,341,000 bushels on farms as of October 1st., was the underlying factor of market strength. A total of 1,091,454 bushels of new crop flaxseed were placed under the loan program as of September 15th, compared with 764,437 on the same date a year ago. Harvesting in the late areas was rapidly nearing completion. Offerings of cash flaxseed were light, even after the sharp advances, totaling only 45 cars and 5,000 bushels in the spot market. To-arrive bookings amounted to only 16 cars and 62,600 bushels in trucks. Arrivals of flaxseed for all accounts totaled 541 cars, compared with 481 cars a year ago. Shipments amounted to 59 cars, against 71 last year.

Receipts and shipments of flaxseed, in bushels, were as follows:

	Receipts 1956-57	Receipts 1955-56	Shipments 1956-57
Past Week	973,800	841,750	106,200
Since Sept. 1	8,698,400	9,219,000	932,400

Peanut—Crude was easier and sold down to 15¼c. per pound, f.o.b. mills, prompt shipment. Refined oil was lower and quoted at 18⅞c. per pound, tankcars, New York, prompt.

Rapeseed—Trading was reported light. Oil was quoted at 18c. per pound, tankcars, New York, prompt and forward delivery. Premiums for spot oil have been withdrawn.

Soybean Oil Futures

Sales and prices of crude soybean oil futures (new contract) in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, October 19, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Dec.	5	12.60	12.60	12.44@12.51
Mar.	6	12.30	12.30	12.34@12.41
May	18	12.40	12.22	12.34@12.41
July	1	12.31	12.31	12.15@12.25

Total sales, 30 contracts.

Soybean—This market was steady, but irregular. Early gains were not sustained due to reduced demand. Crude closed unchanged at 12½c. to 12⅝c. per pound, tankcars, Decatur, October-December delivery. January-March ranged from 12⅜c.-12½c. same basis. Refined salad was held at 15¼c. per pound, tankcars, New York, prompt delivery.

Tung—Buying interest lagged. Tankcars were unchanged at 22¼c. per pound, New York, prompt and later delivery. Drums ranged from 23¾c. to 24½c. per pounds, spot, as to quantity.

Miscellaneous

Castor Beans—Shipments were steady and nominal at $155 to $156 per ton, f.o.b Brazilian ports.

Imports of castor beans and castor

Oils, Fats and Waxes

at New York and Philadelphia last week were as follows:—

	Pounds	
	Beans	Oil
Last week	762.000	5.098.000
Previous week	322.950	
Corresponding week, 1955	2.346.900	1.214.000
Total this year	36.338.610	64.197.000
Corresponding period, 1955	65.123.910	35.175.000

Cocoa Butter—Prices were easier, off 1c. per pound. Spot stocks were quoted at 52c. to 55c. per pound, according to quantity.

Copra—Market was quiet, but steady. Prompt shipments was quoted at $151 per ton, c.i.f. Pacific coast.

Fish Oils

Cod—This market was slightly easier, with sales of tanked oil at 10^{7}/$_{8}$c. per pound, drums, exdock, prompt shipment. Offers for shipment were freer and held at this figure. Spot stocks were lower and ranged from 11^{1}/$_{2}$c. to 11^{3}/$_{4}$c. per pound, drums, as to quantity.

Menhaden Crude—Buying interest continued slow and market was a dull affair. Tankcars were quoted nominally at 8^{3}/$_{4}$c. per pound, f.o.b. works. Export inquiry also was inactive. Refined grades declined 1c. per pound. Light pressed was quoted 11c. per pound, tankcars, New York basis.

Los Angeles.—It was reported the sardine fleet has been averaging 1,500 tons of fish per night since the start of fishing operations about a week ago in Southern California and as a result some oil is making its appearance on the market. Last sales reported at 8^{3}/$_{4}$c. per pound with producers holding at 9c. Inquiry was light. In the Monterey-San Francisco area 9c. also was asked.

Fats and Greases

Greases—This market was firmer and fractionally higher. Trading was moderate, chiefly for domestic delivery. Export interest was more active. Yellow grease was firmer at 6^{3}/$_{4}$c. to 6^{7}/$_{8}$c. per pound, delivered and choice white all hog at 8^{1}/$_{4}$c. to 8^{1}/$_{2}$c., as to acid content, same basis.

Lard—Market was more active and higher. Cash lard was lifted to 12.30c. per pound, drums, Chicago.

Oleo Oil — Extra remained steady at 18^{1}/$_{4}$c. to 18^{1}/$_{2}$c. per pound, drums, depending upon quantity. Oleo stearine was firmer and ranged from 13c. to 14c. per pound, same basis.

Tallow — Improved business further strengthened this market. Trading was quite active for domestic and export account. Bleachable fancy was sold to soapmakers at 7^{3}/$_{4}$c. per pound, tankcars delivered, with 7^{7}/$_{8}$c. generally asked. Extra was nominal at 7^{5}/$_{8}$c.; special was quoted at 7^{1}/$_{4}$c. and No. 1, 6^{3}/$_{4}$c. to 6^{7}/$_{8}$c., same basis. Edible tallow demand was fairly active and quotations were lifted to 12^{1}/$_{2}$c. to 13c. tankcars, delivered, as to seller.

Tallow Futures

Sales and prices of bleachable tallow futures in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, October 19, follow:—

	Sales	High	Low	Close
		Cents per pound		
Oct.	3	8.05	8.05	7.85@7.95
Dec.	12	7.99	7.75	7.85@7.95
Jan.	1	7.85	7.85	7.80@7.90
Mar.	5	7.92	7.92	7.70@7.85

Total sales, 21 contracts.

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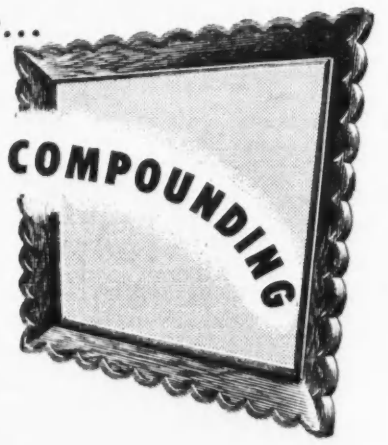
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Fancy was higher at 9¼c. asked for drums, f.a.s.

Cake and Meal

Cottonseed Meal—Local demand continued good and most mills were sold ahead. No surplus of meal stocks seems to be developing and prices remained steady. Meal 41 percent was quoted at $54.50 per ton, sacked Memphis; $56 Alabama; $58 Georgia and South Caroline and $59.50 North Carolina mills for October-December shipment.

Linseed Meal—Market was inactive and lower.

Minneapolis.—Linseed meal prices continued to decline, influenced by competition from extremely cheap soybean meal. Demand was slow, consisting of only small quantities for nearby needs. Directions were not as brisk as in recent weeks. Extracted type linseed meal, 36 percent protein, was quoted at $50 to $51 a ton, bulk, in carlots, f.o.b., Minneapolis, for October forward shipment, down $1. Expeller meal, 32 percent protein, held at $61.50 for December forward.

Shipments of linseed meal, in pounds, were as follows:—

	1956-57	1955-56
Past week	18,240,000	18,180,000
Since Sept. 1	95,640,000	125,101,000

Soybean Meal — Demand continued quite active. Prices held about steady. New crop beans moved in fairly good volume. Meal, 44 percent unrestricted was quoted at $45 per ton, bulk October-December; $46 January-March; $46.50 April-September and $48 bulk f.o.b. Mississippi Valley points for October-December.

Fatty Acids

Steady consuming demand was reported for nearby requirements. Animal fatty acids were in active request and maintained at prevailing quotations. Vegetable acids also were quotably unchanged and moved in good volume for prompt requirements.

Waxes

Beeswax—Scarcity of crude grades for shipment kept this market firm. Shipments of crude African, Brazilian and Chilean were merely nominal around 72c. per pound, New York, prompt delivery. Central American was nominal at 68c. to 69c., same basis. Demand for refined grades was spotty. Prices were unchanged and well held.

Candelilla—Light stocks of crude were closely held at 68c. to 70c. per pound and refined, 73c. to 75c., according to seller and quantity.

Carnauba—Consuming interest in spot delivery improved and moderate volume of business was reported at prevailing prices. The local market remained steady but not as strong as replacements from Brazil. No. 3 Ceara crude was quoted at 71c. to 72c. per pound, spot as to quantity and Parnahyba, 1c. higher. Yellow No. 1 Ceara was well held at $1.42 to $1.44 per pound, spot depending upon quantity and Parnahyba, $1.44 to $1.46 per pound.

Drug Industry

—Continued from page 3

the manufacturer, to set an annual quota for each drugs producer.

Critics of the Karsten bill state that their chief complaint is that the bill makes no distinction between commercial competition and scientific competition. While none of the manufacturers favor a policy of unlimited competition in sales of narcotics to doctors and other legitimate purchasers, they feel that they are entitled to assurances that they will have the right to sell new or improved narcotics.

They say that the bill gives no such assurances now because there is nothing in it to require that the administrator give a manufacturer a quota to produce a new narcotic that he has developed.

On the other hand, the administrator can limit the number of manufacturers to as few as he chooses and set requirements for new narcotics so high that none could beat them.

Twenty-five basic classes of narcotic drugs are named in the bill, and, in addition, any other drugs may be brought under the scope of the measure by a determination of the Secretary of the Treasury, after hearings.

The bill requires producers to obtain licenses from the secretary in order to manufacture a basic class or classes of any narcotic drugs or "to knowingly permit the manufacturer of any narcotic drug, in or upon any place owned, leased, occupied, used or controlled by him."

Rejection of Licenses

The producer must also hold a quota for the manufacturer of a maximum quantity of the drug in a given period of time.

Applications for licenses could be rejected rather easily, because the manufacturer is to be limited to the "smallest number of establishments which will produce an adequate and uninterrupted supply."

The administrator also could deny an applicant a license because of his moral character, reputation, experience, quality of his products and technical competence.

Demurrage Request

—Continued from page 5

the matter between now and March 31 1957.

The carriers last week followed up this rejection with a petition for reconsideration and a request that the higher charges be allowed to become effective while the investigation is underway. The commission's action was to reject this petition and set the day for the hearings.

Present demurrage charges now amount to $3 per day for the first four days after a free-time period of forty-eight hours, and $6 per day thereafter. The railroads have asked for the right to increase the charges to $4 a day for the first two days after the free-time period $7 a day for the next two days, and $10 a day thereafter.

Coatings Research Adds Two Firms

Two new companies have joined Coatings Research Group, Inc., Bethesda, Md. They are Mobile Paint Manufacturing Company of Mobile, Ala., and Vi-Cly Industries, Inc., of Compton, Calif.

Silicon Intermediates Offered Chemists by Union Carbide

New silicon chemical intermediates which may be useful in many ways—from pushing back the thermal barrier for guided missiles to improving the quality of a perfume—are now available from Union Carbide & Carbon Corporation, New York. They are "OrganoFunctional Silanes."

The silicones division of Union Carbide announced that because it has developed practical processes to make "Organo-Functional Silanes" on a pilot-plant scale, it is able to offer four of them to chemists in all branches of industry. They are:—g - Aminopropyltriethoxysilane, d - Aminobutylmethyldiethoxysilane, b-Carbethoxyethyltriethoxysilane and b-Carbethoxyethylmethyldiethoxysilane.

Oil Industry to Spend $5 Billion on Facilities

The United States oil industry plans to spend more than $5 billion this year to expand and improve its facilities, Dr. Robert E. Wilson, chairman of the board of Standard Oil Company (Indiana), declared last week at an Oil Progress Week luncheon in New York.

Dr. Wilson said the oil industry had spent more than $38 billion for domestic expansion since World War II. Most of this investment, he said, was financed out of earnings.

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Everything Attractively Priced for Immediate Removal

YOUR INSPECTION INVITED
WIRE! 'PHONE! WRITE!

IN STOCK

3—Link Belt Roto-Louvre Dryers 11' x 6" x 36', 7'5" x 20', 5'2" x 20'.
3—Hersey 4' x 30', 3' x 20', 18" x 12', 304 S.S. Rotary Dryers.
2—Baker Perkins 100 and 50 gal. 316 S.S. double arm Mixers.
1—Day "Mogul" 2 1/4 gal. double arm Mixer.
1—Robinson 304 S.S. jacketed Powder Mixer 4'x7'6".
3—Mikro Pulverizers #2TH. #1SH, Bantam.
9—Jeffrey Hammermills 24"x20", 20"x12", 15"x8" NEW.
2—Sharples Super-D-Hydrators C-27, C-20, 316 S.S.
1—Bird 24" x 38", 304 S.S. Continuous, Solid Bowl Centrifuge.
2—Bird 40" Suspended type Centrifugals 347 S.S., perforated baskets, TEFC motors.
3—12,000 gal. Aluminum Tanks 10'6" dia. x 20' high.
1—10,000 gal. Aluminum Tank 10' dia. x 16' long, ½" shell, 25# W.P.
4—Horizontal Steel Storage Tanks 10'x40', 10'x30', 8'6"x25', 8'6"x20'.
10—Kellogg Heat Exchangers, Admiralty tubes, 2700, 2200, 1800, sq.ft.
6—Kellogg Steel Heat Exchangers 1500, 800 and 500 sq.ft.
2—Struthers-Wells 536 sq. ft. Heat Exchangers, 304 S.S.
2—Feinc 3'x1' Rotary Vaccum Filters 316 S.S.
1—Oliver 5'3"x8' steel rotary vacuum filter totally enclosed.
1—Niagara #230-32 Pressure Filter, 230 sq.ft., 304 S.S.
10—Nash Vacuum Pumps H-7, H-6, L-5, L-4, #4, #2, MD-671, AL-572.
3—Stokes #412G, #412B, #212B Vacuum Pumps, motor driven.

Partial List of Values — Send for News Flash!

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PERRY EQUIPMENT CORP.

SPECIAL OFFERING AT ATTRACTIVE PRICES PRIOR TO DISMANTLEMENT

1—Stainless Steel Spray Dryer, 19' dia. x 20' high, with Sirocco Blowers, controls, etc. Installed in Camden, N. J.

WASTE DISPOSAL PLANT
Built 1951—Unused

Oliver 5'3" dia. x 8' Face Rotary Vacuum Filter, Precoat; with Nash H-6 Vacuum Pump.

34,000 gal. Lead Lined Steel Reaction Tank with Agitator.

Acid Tank, Slurry Tank, Feed Tank, Slurry Pump, Sludge Pump, Acid Pump, Interconnecting Piping, etc.

LIQUIDATING
AT CLOSED PLANTS

IN AMARILLO, TEXAS

1—Ing Rand Boiler Feed Pump, 225 GPM; 720' head with 75 HP motor.

1—Ing. Rand Boiler Feed Pump, 225 GPM—720' head, 75 HP turbine.

1—P & H 35 ton Overhead Crane, 40' span.

1—Sharples Oil Purifier.

AT CAMDEN, N. J.

4—Devine Vacuum Shelf Dryers, size #27, 17 shelves 59" x 78", double door.

2—Pebble Mills, Porox lined: 37" x 48"; 38" x 42".

1—Jeffrey 36 x 42 Hammer Mill.

AT CARIBOU, ME.

8—42,000 gal. Vertical Steel Tanks, 19' dia. x 20' high, welded.

1—5000 gal. Pressure or Vacuum Cooker with agitator, 6'6" D x 20' L.

3—Vertical Steel Pressure Cookers, 2500 gal.

1—Continuous Mash or Starch Cooker, 8" dia. pipe, 8 passes, 40' long.

1—All steel Heat Exchanger, 9 sections, total 3950 sq. ft., 2" tubes.

WELDED STEEL TANKS
IMMEDIATE SHIPMENT

AT CINCINNATI, OHIO

25—7780 gal. Vertical, 11' D.
9—4725 gal. Horizontal, 9'2" D.

AT GRAND RAPIDS, MICH.

3—23,000 gal. Horizontal, 11' D.

AT READING, PA.

7—4650 gal. Horizontal, 9'6" D.

AT PHILADELPHIA, PA.

12—9000 gal. Vertical, 11' dia.
2—14,000 gal. Horizontal, 10'6" dia.
3—7,900 gal. Horizontal 9'1" dia.
1—15,000 gal. Vertical 11' dia. with coils.

JUST PURCHASED
MAYONNAISE MFG. EQUIP.

2—125 gal. St. St. Jktd. Cookers & Coolers, agit.

2—FMC 4-Cylinder St. St. Piston Fillers.

1—Pn. Sc. 6-Head Auto. Capper 53 min. cap. 8 oz. jar.

1—St. St. Vinegar Mix Tank, 300 gal.

PERRY EQUIPMENT CORP.
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PARTIAL LISTINGS

2—Stokes Model "R" Tablet Machines, variable drive w/3 H.P. motor.

2—#12 Sweetland Filters, 36 monel leaves on 4" centers.

2—Devine #28 Dbl. Dr. Vacuum Shelf Dryers.

1—Day 14" x 30" Type B—H.S. Roller Mill.

5—Day & Ross 15 to 50 gal. Pony Mixers.

2—Fletcher 48" S.S. Extractors.

7—Day Spiral Mixers, 100 & 1800# cap.

2—Patterson 4' x 5' & 5' x 6' Pebble Mills.

1—W & P Mixer 100 gal. Jacketed, Double Arm.

1—Day Stainless Steel Double Arm, Sigma Blade Mixer, 350 gals.

6—Surface Condensers-Receivers, 50 to 150 sq. ft.

3—Rotex Sifters, 20" x 48" to 40" x 84", single and double deck.

1—Buflovak Vac. Impregnator, 24" x 36".

1—Blaw-Knox 110 gal. Jack. & Ag. Autoclave, 2000 psi.

1—Keeler 350 H.P. type CP Boiler.

1—Buflovak 6' dia. Vac-Crystallizer.

1—Inconel Heat Exch., 195 sq. ft.

1—Allbright Nell 4' x 9' Double Drum Dryer.

6—Shriver Filter Press Skeletons, 30"—Gear Closure.

1—Vert. Steel, Jack. Kettle 750 gals. w/ agitator.

1—Day 5" x 12" Lab. 3 Roll Mill.

2—Shriver & Sperry 30" Plate & Frame, C.I. Filter Presses 36 Ch., 1" Cake, O.D.

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OFFERS

DRYERS AND KILNS

Stokes 2'x6' Rotary Vac. Dryer.
1—Allbr. Nell 4x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer. 24"x20"

CENTRIFUGALS AND CENTRIFUGES

4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12" 20", 26" 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

FILTERS

#2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Gen. Amer. 2'x1' Rotary Vac. Filter.
Sperry and Shriver 6" to 36" iron & wood.
Sweetland & Oliver Filters.

KETTLES AND TANKS

Pfaudler 250 gal. Glass Lined Jack. Kettle.
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
6—Jack. steel Kettles to 1000 gals.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.

PULVERIZERS AND MILLS

2—Mikro Pulverizers #2TH & #2SI.
Pebble Mills 24"x30", 30"x30", 30"x34", 30"x42", 4'x5'. Also jar mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #00 Swing Sledge Mill, 3 HP.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single roll crusher
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

4' Steel Cone Blender, 5 HP.
Day Imperial 75 & 150 gal. Jack. Mixers.
Lancaster 6' dia. Vert. Mixer 25 HP.
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000# horiz. spiral mixer.
Day Brighton 20 gal. Change Can Mixers.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3,000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

MISC. AND SPECIALS

Stokes & Kux 2½" dia. single punch Preform Machines. Also other sizes & Rotaries.
Stokes #43A Oscillating Granulator.
Anderson & French Oil Expellers.
3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Conveyors & Elevators. Gas Boilers.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.

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FMC

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TRADE WHAT YOU *DON'T* WANT FOR 1957 PRODUCTION UNITS

Sell your scrap to the scrap dealer BUT use the values in your good surplus equipment to help pay for machinery you DO require for greater and better production. The units listed below will indicate the type of equipment FMC buys and sells. Let's exchange lists.

- AUTOCLAVES
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- KETTLES
- KILNS
- LABELLERS
- MILLS
- MIXERS
- OVENS
- PEBBLE MILL
- PONY MIXERS
- PULPERS
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- PUMPS
- PRESSES
- PRESSURE VESSELS
- REACTORS
- RETORTS
- ROLLER MILLS
- SCREENS
- SIFTERS
- SLITTERS
- SPRAY DRYERS
- STERILIZERS
- STILLS
- TABLET PRESSES
- TUBE FILLERS
- TUMBLING MIXERS
- VACUUM DRYERS
- VACUUM FILLERS
- VACUUM FILTERS
- VACUUM PANS
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JACKETED KETTLES
REACTORS AND TANKS

All Units in New York Stock Offered at the Old Prices

Fill Your Needs Now Before The New Price Increases Go Into Effect

Heavy Duty Mixers

Baker Perkins, Size 18; 300 gal. working capacity; Hydr. Tilt.

Baker Perkins, Size 17, 200 gal. working capacity; Power Tilt.

W. & P. Type, Size 15; 100 gal. working capacity; Screw Tilt.

Baker Perkins, Type 316 S/S Cascade Mixer; 625 gal. Charge; Cont.

W. & P. Type Lab., Size 6½" x 5¼" x 5¼"; double Sigma Arms.

Reactors

Heavy Duty Steel Reactor; 600 gal. 5' x 6'; Steam Jacketed; anchor agitator.

Pfaudler Glass Lined; Jkdt. Agitated up to 1,000 gal.

Blaw Knox Stainless; Jktd./Agtd.; 8' x 7'6".

Stainless 5,000 Gal. 10' x 9'6"; agitated 40 HP.

Filter Presses

Shriver 24" in Stainless; 21 chambers; 4 eye.

Shriver 36" Steam Jacketed; C. I. 29 chambers.

Shriver 42' Cast Iron; closed delivery.

Drum Dryers

Buflovak Chrome Plated Lab. Flaker or Drum Dryer; 12" x 18" complete with all accessories.

Bagley & Sewall Double Drum Dryer 28" x 60"; 73 sq. ft. surface.

Buflovak Model D Double Drum Dryer; 32" x 72"; complete.

Buflovak 42" x 100" Double Drum Dryer; S.S. Hood; complete accessories.

Vacuum Chamber Dryers

Devine No. 23; Double Door; 59" x 78"; 13 shelves; 356 sq ft. with Condenser, Receiver, Vacuum Pump, etc.

F. J. Stokes No. 128 B; 24" x 24", complete with Receiver, Pump, etc.

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for CHEMICAL AND ALLIED INDUSTRIES

5—Ames 500 HP steam generators, 125 psi, ASME, built 1953.

1—Stainless steel vertical storage tank, 3300 gallons.

1—Stainless steel vertical tank, 2250 gallons with turbine type agitator and coils.

7—Aluminum horizontal storage tanks, 17,000 gallons each.

3—Vertical aluminum storage tanks, 10,000 gallons each.

1—Chicago Bridge & Iron Works Hortonsphere, 4500 gallon tank, 200 psi, ASME code.

1—Groen stainless steel 1000 gallon jacketed reactor, 40 psi internal, 50 psi jacket, with agitator.

1—Van Alst stainless steel jacketed 500 gallon kettle with agitator.

1—Struthers-Wells type 347 stainless steel autoclave, 1000 gallons capacity, 2000 psi.

1—H. K. Porter stainless steel jacketed 500 gallon kettle.

8—Steel jacketed reactors, 2500 gallons each.

1—Pfaudler glass lined jacketed kettle, 200 gallons.

2—Pfaudler 500 gallon glass lined horizonal storage tanks, 35 psi. (New).

1—Stokes 5' x 12' double drum dryer, complete, ASME code.

1—Buflovak 42" x 120" double drum dryer, complete ASME code.

1—Hardinge rotary dryer, 7'6" x 55'.

1—Link belt roto louvre dryer, model #502-20.

1—Buflovak cast iron jacketed vacuum crystallizer 6' dia. (New).

1—Oliver stainless steel rotary vacuum precoat filter, 3' x 6' (New).

1—Bird continuous centrifugal steel filter, 24" x 38".

1—Baker Perkins type 316 stainless steel centrifugal filter, model HS-24".

2—Sparker type 316 stainless steel filters, model 18D6.

10—Sweetland #12 Filters with 72 stainless steel leaves.

1—Republic 15" x 15" stainless steel filter, 15 chambers.

1—Link Belt stainless steel roto louvre dryer model #207-14, complete.

1—Sperry stainless steel 18" x 18" filter press 4 eye closed delivery, 21 chambers.

1—AT&M suspended type centrifuge with 18" stainless steel perforated basket, complete with motor.

1—DeLaval type 316 stainless steel motorized centrifuge.

2—Stokes stainless steel granulators, model #21-J and 21-H.

1—Day type 316 stainless steel double arm jacketed mixer, 200 gallons.

4—Bird Centrifuges with 40" stainless steel perforated baskets complete with motor and plows.

1—Baker Perkins stainless steel jacketed double arm vacuum mixer, 100 gallons, complete with motor.

1—Foster Wheeler Dowtherm, 600,000 BTU boiler.

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BLENDER, Ribbon Reed 2000 lb cap. 15 hp.
CENTRIFUGE, Suspended 26" all S.S. 15 hp. 4 Speed Motor, Complete Tolhurst
FARRELL Lab Mill 2 Roll 6"x12" XP Motor.
FILTER, Sweetland 2, All S.S. Top Drainage
FILTER, Niagara 35-20, Vert. S.S. Leaves
FLAKER, *New* Buflovak 6"Dx8"Face Comp.

MIXERS-(2) J. H. DAY Heavy Duty 12 Gal. D.A. SIGMA, Jack Geared Both Sides

SPERRY 18"x18" Filter Press 4 eye wash, 12 Chambers

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Send for detailed circular.

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Oliver SS 3 x 4 Filter, complete unit
Artisan Metal Prods. SS Evap. 1 effect
Sharples SS Super-D Canter, complete unit
Link-Belt SS Rotary Dryer, 31" x 15' complete
Gen. American 42" x 120' Twin Drum Dryer
AT&M 60" Centrifugal 316 SS with 10 hp mtr.
2 Rotex Sifters 40" x 84" and 66" x 120"
BP 2000 gal. SS Mixer, size 30, type RWUEM sigma arms, with 150 hp mtr. BRAND NEW
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1—1000 gal. stainless jktd. & agitated vac. reactor.

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3—Simpson #0 Intensive mixers, 5 HP TEFC.

6—Kux-Lohner model 61 tablet presses.

1—Shriver 35" x 36" cast iron filter press, closed del.

2—100 & 75 sq. ft. stainless leaf type filters.

4—Buflovak & Devine 14 & 10 shelf vac. shelf dryers.

1—250 gal. stainless vac. pan.

2—Batteries (3) Western States 40" x 24" bronze centrifugal, hydraulic & water driven.

6—Hersey 4'x25' and 6'x27' steel rotary dryers.

1—Hardinge 8'x30" conical ball mill, 50 HP.

1—Patterson 8'x10' Burrstone lined tube mill, 100 HP.

4—Rotex & Tyler 3x5 and 4x7 sifters, w/motors.

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1—#2, 23 copper leaves. 1½" c.c.
2—Day 15 gal. Pony Mixers, m.d. S.S. cans.
2—Stainless Steel Hersey Rotary Dryers 5'x26' and 6'x23'.
2—8'x125' Rotary Kilns.
1—#5057 Raymond High Side Roller Mill.
1—Day #30 Imperial jack Mixer 75 gal.
9—Sperry 18"x18" Filter Presses, 11 ch.

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1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—New Nash Vacuum Pump Type AL-572.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—Stedman Disintegrator size 40-6.
1—Abbe Ball Mill, 36"x42" Buhrstone lined.
#316 Stainless Steel Tanks, new 100, 200 & 360 gal.
1—Nash Air Compressor, Type AL-623.
1—Manton Gaulin Stainless Homogenizer, 125 gph.
1—I&R Vacuum Pump, 5 H.P., 60'.
4—Heat Exchangers, 12" dia. 11' lg., 43 steel tubes.
1—S.S. Tank 8' diam.x16' — 5,000 gals.
1—Raymond 8" Hammer Mill, like new.
Davenport Rotary Steam Tube Dryer, 6'x36'.
1—New Louisville Continuous Filtering Machine.
2—Stainless Steel Steam Jacketed Readco Mixers.
1—#316 Stainless Reactor, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Buhrstone Lined.
1—Patterson Ball Mill, porcelain lined, 12"x27".
1—Patterson Ball Mill, 42x36, jacketed.
2—Large Steam Jacketed Horizontal Mixers.
2—Ribbon Type Mixers, 50 & 90 cu. ft.—like new.
4—Steel Tanks 90,000 gals. ea. vert. welded const.
2—Crystallizers—10' long.
3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—#10 Day 300 gal. jacketed Sigma Blade Mixer.
4—New Heat Exc. 60' with Cupro Nickel Tubes.
1—Sparkler Stainless Filter Model 33-S-9.
3—2500 gal. Pfaudler G/L Tanks & S/S Agitators.
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EQUIPMENT OFFERED

For Sale 1—DeLaval Multiple Clarifier, model EA-51 equipped with 1 HP exp. proof 220v 3ph. /60cy. AC motor. Operated less than 15 mos. Write: Macallen Co., Newmarket, N.H.

For Sale 1—Model 100 E Stokes Rotary Vacuum Dryer 6' dia. x 10' long. Rated capacity 500# of material per charge. Jacketed on outside for W. P of 25#. Interior for vacuum only. Interior all stainless steel. Equipped with vapor pipe and rotary steam connection. Equipped with steel dust collector. All in first class condition. In reply refer to OPD 167.

For Sale: 93 sq. ft S.S. T304 Heat Exchanger ASME; 110 gal. Robinson S.S. Unique Semi-Mass Mixer jacketed ASME; 75 gal. S.S. jacketed Day double sigma blade Mixers; 750 gal. S.S. T304 sanitary Tanks; 24" x 36", 36" x 84", 42" x 100", double drum Dryers; S.S. T304 sanitary single effect Evaporator; 94 sq. ft. Best Equipment Company, 617 Davis Street, Evanston, Illinois. DAvis 8-0926.

EQUIPMENT WANTED

Wanted: 300 to 600 pound ribbon type dry powder mixer center discharge with stainless steel body and mixing ribbons. Telephone Mr. Morgan—MEtuchen 6-2354 or write OPD 171.

FACILITIES OFFERED

Pilot Plant complete with stainless steel equipment such as jacketed crystallizers, mixing tanks, rotary dryer, centrifuge, filter, pulverizers and screens. High pressure steam. What can this do for you? Reply to OPD 170.

We Have facilities in Philadelphia available for liquid blending and compounding in lots up to tank car capacity. Three 8500 gallon heatel storage tanks included among other facilities. Mechanical and air agitation. Railroad siding. Dry storage OPD 158.

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Below Market: Methanol, Isopropanol, n-Butanol, Isobutanol, n-Hexanol, MIBK, Acetone, Methyl Cellosolve, Cellosolve, Acetic Acid, other solvents. Regularly available in bulk or lcl. OPD 149.

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Current Market Quotations

—Continued from page 31

Wollastonite, fine, bgs., c.l., works ton 39.50 - —
l.c.l., ex whse ton 56.00 - —
medium, bgs., c.l., works ton 27.00 - —
l.c.l., ex whse ton 44.00 - —
Woolfat, crude (see Degras), USP (see Lanolin).
Wormseed, American bgs. lb. .20 - .25
Levant, bgs. lb. 4.25 4.50
45°-47°C., dms., c.l. same basis,

X

Xylene (see Xylol).
Xylenol cryst. 58°-60°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms. l.c.l., works, frt. equald lb. .30 - —
lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
Fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis gal. .96 - —
l.c.l. same basis gal. .99 - —
tanks same basis gal. .85 - —
Dry at or below 227°C., dms., c.l., same basis gal. 1.11 - —
l.c.l. same basis gal. 1.14 - —
tanks, same basis gal. 1.00 - —
Xylidines, mixed, o-m-p, dms., c.l. or t.l., works lb. .39 - —
l.c.l. same basis lb. .40 - —
tanks, same basis lb. .38 - —
Xylol, coaltar, indust., tanks, works:—
Bethlehem Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago dist gal. .35 - —
Cleveland dist gal. .34½ - —
Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna N. Y. gal. .35 - —
Lone Star, Tex gal. .33 - —
Lorain, Ohio gal. .33 - —
Middletown, Ohio gal. .34 - —
Minnequa, Colo gal. .34 - —
Philadelphia dist gal. .34 - —
Pittsburgh dist gal. .34 - —
Sparrows Point, Md gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32½ - —
petroleum, indust., tanks, works:—
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara, yara, cns. lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .52 - —
200 int'l B units per gram, 100-lb. dms lb. .56 - —
300 int'l B units per gram, 100-lb. dms lb. .60 - —
debittered, USP, Saccharomyces, dlvd lb. .27 - —
Torula, USP, dlvd. lb. .18 - —
Yellow, barium chromate, CP, bbls., dlvd N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.
Benzidine, AAA, bbls., dlvd. lb. 2.10 - —
AAOT bbls., dlvd lb 2.85 - —
Lightfast, bbls., dlvd lb 3.15 - —
Yellow, cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
Selenide lithopone, all shades, bbls., frt. alld. E. of Rockies lb. 1.05 —
Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c per lb higher.
Chrome, CP, bbls., dlvd. N. of Tenn., and N.C., E of Miss., including Davenport, Minneapolis, Rock Island lb .33 33½
Dlvd. Ala., Fla., Ga., La. (Shreveport 1¼ higher); Miss., N. C., S. C. Penna., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex. 2c higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, 10 g. bbls., same basis as yellow, chrome lb. 2.25 - —
G pigment, bbls lb 1.91 —
Iron oxide, natural, French type, bgs., c.l., works lb. .06 —
Peruvian type bgs. l.c.l lb. .0205- .0345
pure bgs. c.l. works lb. 11½ —
l.c.l., works lb 11¾ -
Mercury oxide, bbls., 1,000-lb. lots lb 5.58 —
smaller lots lb 5.60 —
Ocher (see Yellow, iron oxide, natural)
Zinc (chromate) bbls. dlvd lb .27 - .27½
basic, bbls., dlvd lb. .31 - .32½
Yerba santa leaves, bls lb 40 42
Yohimbine hydrochloride, bots, tin. oz. 3.75 - 4.25

Z

Zein, bgs., 36,000-lb. lots or more lb .38 - —
1,000 to 36,000-lb. lots, works lb .40 - —
smaller lots, works lb .43 - —
Zinc acetate, NF, VIII, dms lb .53 - —
tech., dms, works lb .27 - —
Borate, bgs., c.l., dlvd E lb .192 - —
l.c.l., dlvd E lb .202 - —
Chloride, NF, gran., dms lb .42 - —
precip., powd., dms. lb .26 - —
soln. 50% dms. c.l. works 100 lbs. 5.80 - —
l.c.l., works 100 lbs. 6.40 - —
tanks, works 100 lbs. 5.15 - —
tech., fused, dms., c.l., works 100 lbs. 10.70 - —
l.c.l., works 100 lbs. 11.20 - —
gran. fib. dms., c.l., works 100 lbs. 11.45 - —
l.c.l., works 100 lbs. 11.95 - —
Chromate (see Yellow, zinc)
Cyanide, kgs. 1,000-lb. lots or more, works lb. .523 —
smaller lots, works lb. .543 —
Dust, pigment, bbls., c.l., works lb. .17½ —
l.c.l., works lb. .18½ —
Fluoride, bbls., works lb. .49 - .50
Hydrosulfite, dms., c.l., frt. alld lb. .21½ —
l.c.l., frt. alld. lb .22 .37½
Metal, prime western slabs, E. St. Louis lb. .13½ —
New York lb. .14 -
Naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½ -
10% Zn. dms., frt. alld lb. .30 —
Nitrate, tech., cryst., bbls., works. lb .20 -
Oxide, pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14½ —
l.c.l. same basis lb. .15½ —
leaded, 35%, bgs., c.l., mills, frt. alld lb. .15½ -
l.c.l., same basis lb. .16½ —
50% bgs. c.l., same basis lb. .15⅞ —
l.c.l., same basis lb. .16⅞ —
French process, comL, green seal, bgs., c.l., frt. alld lb. .15¾ -
l.c.l., same basis lb. .16¾ —
red seal, bgs., c.l., same basis lb. .15¼ —
l.c.l., same basis lb. .16¼ —
white seal, bgs., c.l., same basis lb. .16¼ —
l.c.l., same basis lb. .17¼ —
USP, ctns., c.l., frt. alld lb. .17¼ —
l.c.l., same basis lb. .18¼ —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulfonate, NF, gran., dms. lb. .39 - —
powd., dms lb. .42 - .49
Resinate, precip., 7.2-7.6% Zn., dms, frt alld lb. .29 —
Silicofluoride, dms., works lb. .12½ - .14
Stearate, tech., USP, ctns., c.l lb. .39 - —
lb. .39 - —
l.c.l. lb. .40 - .44
Sulfate, powd., monohydrate, 36% Zn, bgs., c.l. dlvd E 100 lbs. 8.75 - —
l.c.l., dlvd E 100 lbs. 9.75 - —
Zinc sulfate in bbls. 40c higher
USP, gran dms lb 26 —
Sulfide, pure, bgs., c.l., dlvd lb. .2530- —
Undecylenate, dms. lb 2.25 2.50
Yellow (see Yellow, zinc)
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 10.25 - —
bbls., c.l., works 100 lbs. 10.85 - —
l.c.l., works 100 lbs. 11.35 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l lb. .25½ - —
l.c.l. lb. .26 - —
Zircon (G), gran., bgs., c.l., works. lb. .03½ —
5 tons to c.l., works lb. .03⅝ —
1 ton to 9,999-lb. lots, works. lb. .04 - —
smaller lots, works lb. .06½ —
milled, bgs., c.l., works lb. .04⅛ -
5 tons to c.l., works lb. .04⅜ —
1 ton to 9,999-lb. lots, works. lb. .04⅝ —
500-1,999-lb. lots, works lb. .07½ —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% com., ZrO., c.l., 30,000 lbs. minimum, works lb. .23 —
Hydride, cns., works lb. 7.60 8.45
Nitrate, dms., ex whse lb. 4.50 7.00
Oxide, 92½-99%, white, grd., bbls. or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works lb. .44½ -
1 ton to 9,999-lb. lots, lbs., works lb .45 - —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½ —
smaller lots, works. lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works lb. .59½ -
1 ton to 9,999-lb. lots, works lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½ -
smaller lots, works. lb. .63 - —
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Chemicals Foreign Trade Up a Bit During August

United States foreign trade in chemicals and related products during August showed only a slight change from that of July, but was substantially above that of August a year ago, according to preliminary estimates of the Bureau of Census.

August exports were valued at $105.2 million, as compared with $103.5 million during July and $91.9 million during August last year. Imports for the month amounted to $20.1 million as against $19.2 million in July and $18.7 million in the comparable month a year ago.

Oil Import

—Continued from page 4

third and fourth quarters of 1956 would constitute, if continued into 1957, a threat to our national security," the report said.

Mr. Flemming said that if the objectives that the committee has set forth are to be achieved, it will be necessary for all oil importers to reduce, on an individual voluntary basis, their average level of imports in each quarter during 1957 into districts I-IV by 1 percent under their average level of imports for the first six months of 1956.

This determination, he said, takes into account the anticipated increase of five percent in domestic production of crude oil in 1957, and also an adjustment by Venezuela in the scheduling of exports from that country into districts I-IV throughout next year.

The present policy of the government is to exclude imports tinto district V (west coast) from consideration in determining the question of conformity with the recommendations to hold-down imports. This is to be continued, although emphasis will be placed on encouraging imports into this district from western hemisphere sources, rather than other sources.

The committee found that in the case of imports of residual fuel oil it is unnecessary at this time to set up standards for guidance of importers.

Memo to: Companies Developing New Chemical Compounds, from Toxicity Screening Dep't, FOSTER D. SNELL, INC.

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